

# **Quarterly Monitoring Report** 1st Quarter 2006

L.E. Carpenter & Company Borough of Wharton Morris County, New Jersey

USEPA ID No. NJD002168748

May 2006

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# Section 1 Introduction

RMT, Inc. (RMT), on behalf of our client, has prepared this Quarterly Monitoring Report for the L.E. Carpenter and Company (LEC) ("site") located at 170 North Main Street, Borough of Wharton, Morris County, New Jersey (Figure 1). Quarterly monitoring events are performed at the site to comply with paragraph 35 of the 1986 Administrative Consent Order (ACO) issued to LEC by the New Jersey Department of Environmental Protection (NJDEP). We provide a summary of activities completed during the first quarter of 2006 (1Q06), including but not limited to, the continued quarterly Monitored Natural Attenuation (MNA) groundwater monitoring in the MW19/Hot Spot 1 Area located at the northwest corner of the site, and the submittal and subsequent NJDEP and United States Environmental Protection Agency (USEPA) comment regarding the *Post Remedial Monitoring Plan* (RMT, Oct 2005)[PRMP] required for submittal as a condition of *Remedial Action Work Plan* (RAWP) for Source Reduction (RMT, April 2004) approval.

We have certified this report in accordance with requirements outlined in N.J.A.C 7:26E-1.5 (Appendix A).

RMT conducted the following tasks during the 1Q06:

- Quarterly monitoring of both the MW19/Hot Spot 1 area and adjacent surface water bodies (*i.e.*, Rockaway River and drainage channel) as required under the 1986 ACO, and as proposed in the PRMP and various regulatory correspondence (Reference Sections 2 and 3, and Figures 3 and 4).
- Completion of the soil vapor intrusion evaluation in the MW19/Hot Spot 1 area (Reference Section 4).

Discussion of these activities is provided in the referenced sections.

### Section 2 MW19/Hot Spot 1 Groundwater Monitoring

### 2.1 Implementation of the Revised Monitored Natural Attenuation Protocol

In a letter dated January 15, 2004, USEPA requested LEC implement the approved May 2001 MNA workplan. Prior to that time, LEC implemented only the low-flow sampling protocols outlined in the MNA workplan. During the second quarter 2004 (2Q04) sampling event, LEC began implementing all aspects of the MNA workplan (e.g., low-flow sampling, full MNA analysis, etc.). During the January 6, 2005 preconstruction meeting, USEPA requested quarterly MNA activities be continued in the MW19/Hot Spot 1 area until the source reduction remedial action was complete and a new site-wide monitoring well network was installed. In a letter dated January 13, 2005, RMT revised the MNA monitoring program due to the modifications made to the LEC site groundwater monitoring network. A copy of the revised MNA sampling protocol was presented as Appendix D in the first quarter of 2005 (1Q05) monitoring report. This revised MNA monitoring protocol will be implemented quarterly at LEC until the NJDEP and USEPA conditionally approved site-wide monitoring well network has been installed.

#### 2.2 Sampling Methodology

RMT conducted the 1Q06 groundwater monitoring activities February 27 through March 2, 2006. Historically, we performed groundwater monitoring in accordance with the procedures contained in the NJDEP's Field Sampling Procedures Manual dated May 1992 (Revised August 2005). However, in second quarter of 2002 (2Q02) we initiated groundwater monitoring using the low-flow methodology outlined in our May 2001 MNA workplan. The MNA workplan was approved by NJDEP on January 24, 2002. Although the sampling was performed using low-flow methods (i.e., QED bladder pump system with disposable Teflon bladders as described in the approved MNA workplan Quality Assurance Project Plan (QAPP)), the remaining parts of the MNA workplan (e.g., full analysis of each sample for MNA specific parameters) had not yet been initiated. As outlined in the comments received from USEPA on January 15, 2004, following their review of the third quarter of 2003 (3Q03) monitoring report, LEC began implementing the additional portions of the MNA workplan during the 2Q04 sampling event. In 1Q05, RMT implemented the revised MNA monitoring protocol, and performed the event in accordance with the approved MNA workplan. Locations of the monitoring wells remaining at

LEC following the abandonment activities completed in fourth quarter of 2004 (4Q04) to facilitate the source reduction remedial action, along with the monitoring wells utilized in the quarterly MNA monitoring of the MW19/Hot Spot 1 Area are shown on Figure 2.

Two sample duplicates, a trip blank, field (atmosphere) blank, a matrix spike/matrix spike duplicate (MS/MSD), and a rinsate blank were collected to satisfy Quality Assurance/Quality Control (QA/QC) requirements outlined in the QAPP. The trip blank was prepared by the laboratory and remained with the sample containers until the samples were returned to the laboratory where they were analyzed for BTEX. The duplicates were collected from SW-D-2 (duplicate sample No. Dup-01) and monitoring well MW-19-7 (duplicate sample No. Dup-02), and were analyzed for BTEX and di(2-ethylhexyl)phthalate (DEHP). Dup-02 was also analyzed for MNA parameters. The rinsate blank was collected by circulating triple distilled water through the cleaned bladder pump assembly to verify the decontamination procedures were adequate. Any sampling equipment used at each well was decontaminated prior to each use utilizing an environmental detergent (Alconox) and clean water wash followed by a distilled water rinse. The field (atmosphere) blank was taken by opening a bottle of unpreserved deionized water provided by the laboratory, leaving the bottle open during the sampling of one well, and pouring that water directly into clean sample bottles with added preservative also provided by the laboratory. RMT submitted all samples to Lancaster Laboratories, Inc. (Lancaster), located in Lancaster, Pennsylvania for BTEX, DEHP, and MNA parameter analysis per the current MNA groundwater monitoring protocol (State of New Jersey Lab Certification No. PA011).

#### 2.3 Groundwater Elevations and Flow Direction

On February 27, 2006, RMT measured static groundwater levels from the 22 different locations (Table 1) outlined in the revised MNA protocol (1Q05 Monitoring Report; Appendix D). RMT used this data to calculate groundwater elevations and evaluate the groundwater flow pattern in the shallow aquifer system. Surface water elevation measurements will be collected from the new six surface water monitoring points SW-R1, SW-R2, SW-R3, SW-R4, SW-R5, and SW-R6 (Ref. Figure 2) once they are professionally surveyed during PRMP implementation activities scheduled for May 2006. Existing location SG-R1 will be replaced by SW-R5. Existing location SG-R2 will continue to be evaluated for surface water elevation ONLY on a quarterly basis.

Figure 3 displays the MW19/Hot Spot 1 Area shallow groundwater elevation contours, and indicates that groundwater flow direction in the shallow aquifer is likely influenced by the presence of the 24-inch Rockaway River Regional Interceptor Sewer, which is encased in a gravel-lined trench oriented roughly parallel to Ross Street. The data shows the shallow groundwater flow direction is generally similar to that observed historically (generally toward the northeast). Data continue to suggest that MW-19-11 is not directly downgradient from the

leading edge of groundwater contamination, and it is possible that constituents of concern (COC) could have migrated further northeasterly between wells MW-19-8 and MW-19-11.

From a regional flow standpoint, overall flow is controlled by the Washington Forge Pond and the Rockaway River. The Rockaway River eventually captures groundwater from MW-19/Hot Spot 1 area, even though it is locally influenced by the Regional Interceptor Sewer.

Because groundwater flow direction is important to the discussion of contaminant distribution and natural attenuation, and because details of groundwater flow paths in the MW-19 area have changed due to installation of new wells, LEC performed a detailed analysis of the evolution of MW-19/Hot Spot 1 area groundwater flow data and associated patterns. A detailed discussion of groundwater elevation and flow data, in addition to a summary figure of groundwater elevation contours from 2001 to 2005 was presented in Section 2.3 and on Figure 6 of the 4Q05 Monitoring Report.

#### 2.4 Delineation of Groundwater Contamination

#### 2.4.1 Contaminants of Concern (COC)

Table 2 summarizes concentrations of BTEX and DEHP for all of the MW-19/Hot Spot 1 area MNA groundwater monitoring wells. The lateral distribution of total BTEX compounds are shown on Figure 4. RMT sampled groundwater from the MW-19/Hot Spot 1 area wells on February 28, 2006. Corresponding field sampling data and analytical laboratory reports are presented as Appendix D and Appendix E, respectively.

The New Jersey Groundwater Quality Standard (NJGWQS) for DEHP is not exceeded in any of the sampled monitoring wells during the 1Q06 monitoring event. Toluene, and total xylenes exceed the NJGWQS of 1000  $\mu$ g/L and 40  $\mu$ g/L, respectively, in groundwater collected from MW-19 and MW-19-5. Groundwater sampled from MW-19-7 also exceeded the NJGWQS for total xylenes as well as for benzene (1  $\mu$ g/L). Furthermore, monitoring well MW-19 slightly exceeded the NJGWQS for ethylbenzene (700  $\mu$ g/L).

The overall concentrations of COC in MW-19-7 are greatly reduced for 1Q06 compared to data from the 4Q05. This is most likely the result of timing of major infiltration events (rainfall) and fluctuations in groundwater elevations between second, third, and fourth quarters (see trend chart in Appendix C).

MW-19 is located close to the former 10,000-gallon underground storage tanks (UST) (UST's E-3 and E-4) that were likely responsible for the resulting DEHP and BTEX constituents in shallow groundwater. These former UST's are no longer a continuing source for DEHP and BTEX contamination in this area because LEC removed them in 1991 along with some of the nearby impacted soils (as shown on Figure 5). In addition, the LEC printing processes and material storage practices that occurred in Building 9 that may have resulted in releases of both DEHP and BTEX were stopped in 1987. However, residual soil contamination between MW-19 and MW-19-5 were reportedly left in place (Figure 5), and water-table fluctuations as well as major infiltration events are likely responsible for observed variations of the dissolved groundwater contaminants being detected currently (Appendix C).

No BTEX or DEHP has ever been detected in MW-19-11. However, as described above, for the fifth time since installed, data show northeasterly groundwater flow shifts slightly more to the north between MW-19-7 and MW-19-11. Thus, data continue to suggest that MW-19-11 is not directly downgradient from the leading edge of groundwater contamination. Although from a strict hydraulic standpoint it is possible that COC could have migrated further northeasterly than shown by isoconcentration contours (between wells MW-19-8 and MW-19-11), it is also possible that COC in groundwater in the MW-19 area are not migrating substantially further than shown on Figure 4. The latter is more probable based on an evaluation of the trend charts shown in Appendix C and the concentration distribution as shown on Figure 4. The charts show that downgradient migration is probably limited to the near vicinity of MW-19-7 because the bulk of past monitoring events show that MW-19-7 is directly downgradient from MW-19-5 (as described above), and the concentrations in MW-19-7 are shown to rise only slightly following relatively large upward spikes in COC concentration in MW-19-5. The COC plume appears to exist under relatively equilibrium conditions (as described further below during the discussion of natural attenuation) although effected by short-lived pulses of contaminant flow, which reaches its maximum distance following major infiltration and water table fluctuation events. Nevertheless, an additional monitoring well [MW-19-12, Ref. Figures 3 and 4] will be installed prior to the 2Q06 monitoring event during PRMP implementation activities in order to verify this scenario and assure that COC are not migrating across Ross Street or along the regional sewer line.

Figure 4 shows isoconcentration contours for total BTEX levels in parts per million (ppm or mg/L). The contours were constructed by taking in to account total concentrations together with particle flow-paths that would occur normal to the groundwater elevation contours. The distribution of total BTEX defined by the isoconcentration contours is

consistent with the groundwater flow direction defined by the groundwater elevation contours.

The lack of downward migration of contaminants is evidenced by the upward vertical hydraulic gradient as demonstrated by historical groundwater head data from shallow wells compared to nearby deep wells. This upward vertical gradient is consistent with all other former deep/shallow well clusters across the site and is a function of the hydraulic head induced by the Washington Pond Reservoir, and regional discharge to the Rockaway River. These findings are consistent with an earlier RMT prediction of an upward vertical gradient for this location based on nearby piezometers GEI-2I and GEI-2S, and other upward vertical gradients observed across the site. The Washington Forge Pond (at an elevation of approximately 640 feet), and the Rockaway River act as constant head boundaries, and together comprise a regional aquifer discharge area

#### 2.4.2 MNA Parameters and Data Analysis

Tables 3 and 4 summarize the MNA laboratory analytical and field data respectively. The current quarterly groundwater monitoring program, as a result of recent modification to the LEC site groundwater monitoring well network, was revised on January 13, 2005, and put into affect for 1Q05 sampling. The sampling and testing was done in accordance with the revised MNA sampling protocol presented as Appendix D in the 1Q05 monitoring report.

Natural attenuation (NA) of petroleum hydrocarbons via biodegradation (also known as intrinsic bioremediation) has been documented to be a universal phenomenon in that it occurs at 100% of sites with BTEX hydrocarbon contamination, and is found to be protective at >80% of those sites (Wiedemeier, 1997). Given the low concentrations exhibited over most of the sampling history for MW-19-7 (relative to MW-19-5), and results of NA parameter testing (described in more detail below), LEC believes that intrinsic bioremediation is likely protective of the environment at the site.

The main difference that exists with respect to distribution of contaminants at various sites is related to the distance contaminants migrate before an "equilibrated" zone of degradation occurs. Because the data for MW-19-5 shows increased mass flux of contaminants from vadose to dissolved phase as a function of infiltration and water table fluctuation, and because hydraulic data suggests that MW-19-7 is not always directly downgradient from the zone of residual soil contamination, another well (MW-19-12) will be installed to assure that the full lateral extent of the plume (which we believe exists largely under equilibrium conditions) is known.

Note that MW-19-7 did not appear to be directly downgradient during the third quarter 2004 (3Q04) (August, 2004) and the 3Q05 (July, 2005) events, which are likely the reason that concentrations were non-detect or just slightly elevated above detection for those two events. However, it is also important to note that often when concentrations from the residual source area (currently represented mostly by results from MW-19-5) spike upwards (as in the 2Q02 and 2Q04 events), concentrations also rise, but remain relatively low at MW-19-7, which based on the groundwater contours for those events was directly downgradient from MW-19-5. This supports the idea that the zone of dissolved groundwater contamination that is elevated above NJDEP cleanup criteria and is sourced from infiltration through residual soil contamination in the vadose zone is very limited in extent.

#### Intrinsic Bioremediation

The following is an expanded discussion of NA parameter testing results that supports the occurrence of intrinsic bioremediation within the MW-19/Hot Spot 1 area.

Where NA processes are present, groundwater contamination stops migrating at some finite distance from the source because biodegradation prevents plume expansion once relative equilibrium conditions have been achieved with respect to microbially mediated processes. Based on isoconcentration maps from the past two years and the data in Table 2, it appears that the size and shape of the plume within the MW19/Hot Spot 1 areas have remained relatively constant. At the upgradient edge of residual soil contamination MW-19 shows clear evidence of significant concentration reductions over time. Within or immediately adjacent to the downgradient edge of residual soil contamination, MW-19-5 shows variable concentrations over time related to infiltration and water table fluctuation events. Further downgradient from the residual soil contamination MW-19-7 shows the least amount of BTEX concentrations and the highest concentrations of various NA parameters that are produced as a function of biodegradation.

Numerous researchers have shown that BTEX biodegrades via aerobic respiration, denitrification, manganese reduction, iron (III) reduction, sulfate reduction, and methanogenesis. Therefore, indicator parameters (Tables 3 and 4), such as iron, dissolved oxygen, sulfate, methane, and nitrate, that the microorganisms need and use to biodegrade petroleum hydrocarbons can be monitored and evaluated between monitoring wells that are upgradient, downgradient, or within the plume area itself. The low concentrations of

sulfate and nitrate observed within the plume (e.g., MW-19-5), as compared to upgradient concentrations (e.g., MW-19-4), are positive evidence biodegradation is taking place in the MW-19/Hot Spot 1 area. In addition, several other parameters, such as CO2, alkalinity, methane, and ferrous iron, are produced by the same microorganisms during contaminant degradation and are also being monitored and tracked across the site. Within the MW-19/Hot Spot 1 plume area, the concentrations of all four previously mentioned parameters are significantly higher than compared to background concentrations. For example, biodegradation via methanogenesis is clearly demonstrated by a comparison of background (MW-19-4) versus residual source area (MW-19-5) methane concentrations (Table 3). Methane is not detected in the background well, but is elevated within or just downgradient from the residual source area during those times of concentration spikes caused by infiltration events and/or water table fluctuations (note that methane concentrations decrease significantly during those periods of low concentrations in groundwater within the residual source area). Specifically, methane was detected in MW-19-5 at a level of 1.7 ppm during the 3Q05 event when total BTEX was detected at a concentration of 115.7 ppm. In contrast, methane levels are generally much higher in the next downgradient well, MW-19-7 [average of 8.5 ppm over the period of MNA testing, from first quarter of 2004 (1Q04) through present]. These data, together with the trend to much lower total BTEX concentrations in MW-19-7, suggest that biodegradation of BTEX compounds reaches completion a relatively short distance downgradient from MW-19-7.

These data show that intrinsic bioremediation processes are strong and actively working to break down BTEX components related to residual soil contamination. NA parameters will continue to be monitored and as more data is received (including data from the soil gas sampling program and the proposed well) future evaluations will be performed and updates submitted with quarterly monitoring reports.

# Section 3 Surface Water Sampling

#### 3.1 Eastern Drainage Channel

As part of the 1Q06 event, RMT sampled the eastern drainage channel that separates the adjacent Air Products facility from the LEC site and the adjacent Wharton Enterprises property. This sampling was conducted at the request of NJDEP as outlined in their letter dated March 23, 2005. During the first quarter sampling event, three locations (SW-D-1, SW-D-2, and SW-D-3) were sampled. Sample SW-D-1 is located at the upstream end (head) of the ditch (Figure 2). Sample SW-D-2 is located just downgradient of the bend around the Air Products facility (Figure 2) adjacent to the area where free product seeps were observed before completion of the source reduction. Sample SW-D-3 is located at the downgradient end of the ditch, just west of the connecting channel that feeds into the Rockaway River (Figure 2). Laboratory testing results for these samples are summarized on Table 5.

No BTEX concentrations were detected in the surface water sample collected at background location SW-D-1 (head of the ditch). A low level concentration of DEHP was detected at 2.0  $\mu$ g/L. However, the detection was "J-qualified" meaning it was an estimated value falling between the method detection limit (MDL) and the Limit of Quantitation (LOQ). The surface water sample SW-D-2 was collected in the ditch adjacent to the former seep (recently removed as part of the source reduction) and contained low levels of ethylbenzene and total xylenes (0.8  $\mu$ g/L and 2.7  $\mu$ g/L respectively, both "J-qualified"). In addition, DEHP was detected at 27.0  $\mu$ g/L. The downstream surface water sample collected at SW-D-3 also contained low levels of ethylbenzene, total xylene, and DEHP (1.1  $\mu$ g/L, 3.9  $\mu$ g/L, and 6.0  $\mu$ g/L respectively). The DEHP concentration in SW-D-3 was "J-qualified". All BTEX concentrations are below the surface water quality criteria (WQC) for toxic substances outlined in N.J.A.C 7:9B-1.14, however the DEHP concentration exceeds the WQC of 1.76  $\mu$ g/L. LEC will closely monitor the analytical results from the 2Q06 sampling activities. If concentrations continue at their present levels, LEC will add an additional surface water sample where the connecting channel feeds into the Rockaway River.

#### 3.2 Rockaway River

In addition to the drainage channel, RMT also collected six samples in the Rockaway River (Ref. Figure 2 and Table 5).

Sample SW-R-1 was collected near the river edge adjacent to the location where absorbent booms were placed in order to prevent visible product sheen from migrating directly into the river. As discussed in earlier reports, the sheen was discovered in 2004 as a visible coloration on top of quiescent water ponded within the wetland area. The surface water sample from SW-R-1 contained low level, "J-qualified" concentrations of ethylbenzene and total xylenes (0.3  $\mu$ g/L and 1.4  $\mu$ g/L respectively). No DEHP was detected.

River sample, SW-R-2, was taken directly upstream of where the former absorbent booms were placed and near the staff gauge SG-R3 location. The surface water sample collected in the river at SW-R-2 also contained low level, "J-qualified" concentrations of ethylbenzene and total xylenes ( $0.5 \,\mu g/L$  and  $2.3 \,\mu g/L$  respectively). No DEHP was detected.

The remaining surface water samples (SW-R-3 through SW-R-6) were non-detect for all contaminants of concern.

Surface water sampling at the eastern drainage ditch as well as the Rockaway River and Washington Forge Pond will continue to take place during each quarterly monitoring event. Specifics regarding surface water sampling locations, frequency and analytes are presented in the PRMP and in the previous section of this report [Ref. Sections 1.1.2 and 2.3].

### **Section 4**

### Remedial Actions and Future Activities

The following section briefly outlines additional remedial activities completed in 1Q06 and activities anticipated for implementation during 2Q06. The 2Q06 MW-19/Hot Spot 1 sampling activities are tentatively scheduled to be completed in May 2006, following the installation of the new LEC site groundwater monitoring network as outlined in the conditionally approved PRMP.

#### 4.1 Source Reduction Construction Project

As we outlined in the final source reduction progress updates dated June 30, 2005, the construction phase of this project is now complete.

A Remedial Action Report (RAR) documenting all source reduction activities was provided to both NJDEP and USEPA for review on week of November 14, 2005. LEC is still awaiting formal approval of this report.

#### 4.2 Emergency Response Activities

Emergency response activities have been terminated, as source reduction activities are now complete. RMT visually inspected these areas during the 1Q06 sampling event (at the same time adjacent surface water samples were collected). RMT did not find any seeps along the ditch and the Rockaway River, and no sheen was observed within these surface water bodies.

#### 4.3 Post Source Reduction Site Monitoring

Discussions were initiated between RMT and both NJDEP and USEPA during 4Q05 regarding the development and installation of the post source reduction site monitoring network in accordance with the submitted PRMP. A formal review and comment letter regarding the PRMP was received by LEC on February 22, 2006. LEC has scheduled the installation of the site-wide groundwater monitoring network to begin the week of May 15, 2006.

In addition to the adequate array of monitoring wells within and downgradient from the source reduction area, the new site monitoring network will include one additional shallow monitoring well (MW-19-12) in the MW-19/Hot Spot 1 area (Figure 3) based on the localized northeasterly shift in groundwater flow discussed above.

#### 4.4 MW19/Hot Spot 1 Vapor Intrusion Investigation

RMT conducted the soil gas investigation activities on March 1, 2006, in accordance with the October 2005 NJDEP Vapor Intrusion Guidance and the NJDEP Revised Field Sampling Procedures Manual (August 2005). The results of this investigation are being provided in a separate report.



# L.E. Carpenter and Company (LEC) Borough of Wharton, Morris County, New Jersey Quarterly Groundwater Elevations

•			P	ROFESSIONAL SU	RVEY INFORMAT	ION (9)			QUA	RTERLY MEASURI	EMENT
WELL LOCATION	WELL TYPE	BASELINE L	OCATION (PT)	GEODETIC	LOCATION	BLEV	ATION (FT. 1	MSL)		INFORMATION	
• '			,				OUTER	INNER	MBAS.	WATER	WATER
		(Y) North	(X) East	LATITUDE	LONGITUDE	GROUND	CASING	WELL	DATE	DEPTH	ELEVATION
GEI-2I	Piezometer	754573.99	470499.76	40° 54′ 17.4"	74°34′43.1"	635.32	637.75	637.60	27-Feb-06	9.82	627.78
GEI-2S	Piezometer	754566	470506.18	40° 54′ 17.3"	74°34′43:0"	634.86	637.27	637.07	27-Feb-06	9.92	627.15
GEI-31	Piezometer	754311.79	470453.7	40° 54′ 14.8"	74°34′ 43.7"	636.96	639.39	639.25	27-Feb-06	11.96	627.29
MW-15S	Monitoring Well	754326.58	470891.83	40° 54′ 15.0"	74° 34′ 38.0"	634.23	636,43	636.17	27-Feb-06	9.64	626.53
MW-15I	Monitoring Well	754325.8	470901.47	40° 54′ 15.0"	74°34′37.9"	634.14	636.28	636.06	27-Feb-06	9.53	626.53
MW-19	Monitoring Well	754537.15	470454.45	40° 54′ 17.1"	74°34′43.7"	636.22	636.23	635.90	27-Feb-06	8.61	627.29
MW-19-1	Monitoring Well	754534.52	470427.63	40° 54′ 17.0"	74°34′ 44.0"	635:93	635.96	635.64	27-Feb-06	8.26	627.38
MW-19-2	Monitoring Well	754551.81	470429:56	40° 54′ 17.2"	74 <sup>0</sup> 34′ 44.0"	636,46	636.50	636.30	27-Feb-06	8.96	627.34
MW-19-3	Monitoring Well	754539.4	470394.2	40° 54′ 17.1"	74°34′ 44.5"	636.97	637.06	636,70	27-Feb-06	9.33	627.37
MW-19-4	Monitoring Well	754505.39	470432.08	40° 54′ 16.7"	74°34′ 44.0"	635.69	635.76	635.43	27-Feb-06	7.99	627.44
MW-19-5	Monitoring Well	754565.53	470470.75	40° 54′ 17.3"	74°34′ 43.5"	635.93	635.93	635.56	27-Feb-06	8.38	627.18
MW-19-6	Monitoring Well	754578.87	470443.1	40° 54′ 17.5"	74°34′ 43.8"	636.17	636.16	635.82	27-Feb-06	8.57	627.25
MW-19-7	Monitoring Well	754595.66	470501.7	40° 54′ 17.6"	74 <sup>0</sup> 34′ 43.1"	635.31	635.36	635.00	27-Feb-06	7.84	627.16
MW-19-8	Monitoring Well	754617.42	470493.65	40°54′ 17.8"	74°34′ 43.2"	635.82	635.82	635.36	27-Feb-06	8.22	627.14
MW-19-9D	Monitoring Well	754590	470442	40°54′ 17.9"	74°34′ 42.4"	636.39	636.41	636.10	27-Feb-06	8.09	628.01
MW-19-10	Monitoring Well	754625.75	470590.81		-	634.72	634.81	634.43	27-Feb-06	7.01	627.42
MW-19-11	Monitoring Well	754617.45	470546.95	40° 54′ 18:2"	74 <sup>0</sup> 34′ 41.0"	634.22	634.26	633.67	27-Feb-06	6.68	626.99
SG-D1 (t)	Drainage Channel Staff Gauge	754428.57	471240.37	-	-	625.81	-	-	27-Feb-06	1.44	624.37
SG-D2 <sup>(1)</sup>	Drainage Channel Staff Gauge	754285.43	471361.24		-	626.26	-		27-Feb-06	1.16	625.10
SG-D3 <sup>(t)</sup>	Drainage Channel Staff Gauge	754381.47	471548.31	-	-	625.83	-	-	27-Feb-06	1.64	624.19
SG-R1	Washington Forge Pond Staff Gauge	754313.99	470408.70	-	-	640.92	-	-	27-Feb-06	1.70	639.22
SG-R2	Rockaway River Staff Gauge	754056.10	470946.46	-	<u>-</u>	628.65	-	-	27-Feb-06	2.52	626.13

#### **FOOTNOTES**

- (1) Elevation measured at the top of a 3.33 ft. Staff gauge. Reference elevation (ground) shot at the top of the staff gauge. Water depth based on a visual observation of the water level on the Staff gauge.
- (2) All "19 series" wells were resurveyed August 8, 2001 at owners request. Wells MW19 through MW19-5 were converted to flush mount wells to allow for through traffic. Professional survey performed by James M. Stewart, Inc., Philadelphia, PA
- (3) Horizontal Datum: New Jersey State Plane Coordinate System NAD 83. Vertical Datum: NAVD 88
- (4) Elevation measurements will be collected at the new Rockaway River surface water sample locations SW-R1, SW-R2, SW-R3, SW-R4, SW-R5, & SW-R6 once these locations have been professionally surveyed during PRMP implementation activities. Existing location SG-R1 will be replaced by SW-R5. Existing location SG-R2 will continue to be evaluated for surface water elevation ONLY on a quarterly basis.

#### TABLE 2 L.E. CARPENTER AND COMPANY (LEC) Borough of Wharton, Morris County, New Jersey MW19/Hot Spot 1 Groundwater Monitoring Data

)					ANA	LYTICAL PARAN	METERS					
MONITORING WELLS	SAMPLE DATE	QUARTER		Benzene	Et	hylbenzene		Toluene	То	tal Xylenes	Ethyl	bis-2- hexyiphthalate (DEHP)
· · · · · · · · · · · · · · · · · · ·	<u> </u>	UNITS		ug/l		ug/i		ug/l		ug/l		ug/l
		OLUBILITY LIMIT	٠.	1,700,000	<del> </del>	152,000	┼	515,000		175,000	ļ	
NEW JERSEY GROUNDWATER	QUALITY STAND	ARDS (NJGWQS)		1		700		1,000		40		30
MW19												
Dilution factor for STEX-2000	= : : 00.00	1	<	660		1,700		110,000		10,000		NR
Dilution factor for BTEX 100	14-Jun-95	2		150		3,400		140,000		17,000		NS
Dilution factor 5000 for BTEX & 2 for DEHP; MDL for Benzene 1000 up/	24-Apr-98	2	<	1,000		2,850		76.700		14,900		6.6
Dilution factor for BTEX 500		3	<	95		3,000		62.000		17.000	-	2.9
Dilution factor for BTEX 1000	0 00 02	2	<	200		1,000		30,000		6,000		5.6
Dilution factor for BTEX 100, Toluene 200	20 : 10 : 00	4	<	20	<u> </u>	1,500		40,000		7,400	J	6.0
Dilution factor for BTEX 100, Toluene 500	15-Jun-04 10-Aug-04	3	<	100 20		1,400		46,000		6,600	J	4.0
Dilution factor for STEX 50		1	<u> </u>	10		2,100 750		56,000		11,000	J	2.0
Lower Greb Water Sample; Dilution (actor for BTEX	8-Apr-05	2		1		97		18,000	<del>-</del>	3,600 F20	<u> </u>	1.0
Upper Grab Water Sample; Dilution factor for Toluene 5	8-Apr-05	2	~	0.2	-	86	-	1,300		530	J	3.0
Dillution factor for BTEX 200	27-Jul-05	3	_{	40		1,100		410 44,000	<u> </u>	430 6,000	J	3.0 2.0
Dillution factor for BTEX 100	27-Oct-05	4	$\overline{}$	20		200		10,000		1,200	J	5.0
Dillution factor for BTEX 250		1	<	50		880		28,000	- "	4.900	J	3.0
												0.0
MW19-1												
Dilution factor for BTEX 200	12-Mar-98	11	<	40		219	•	4,270		1,160		190
	2-Aug-01	3	_<	0.2		1.2	<	0.2	<	0.2		85
7	5-Jun-02	2_	<	0.22	<	0.18	<	0.24	<	0.2		0.6
	19-Nov-03 15-Jun-04	2	<u> </u>	0.2	<	0.2	_ ,<	0.2	<	0.6	<	0.9
	10-Aug-04	3	<u> </u>	0.2	< <	0.2	J	1.7 0.6	<_	0.6		11
	13-Jan-05	1	~	0.2		0.2		0.6	· ·	0.6	< J	4
Lower Grab Water Sample	8-Apr-05	2	<	0.2	~	0.2	~	0.2	~	0.6	<u> </u>	1 1
Upper Grab Water Sample	8-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	~	1
	27-Jul-05	3	<	0.2	<	0.2	<	0.2	<	0.6	J	1
•	26-Oct-05	4	_<_	0.2	<	0.2	_ <	0.2	<.	0.6	J	2
MW19-2	<del></del>											
Dilution factor for BTEX 250	12-Mar-98	1	<	50.0		1,130	·- <u> </u>	9,830		6.0476		
Dilution factor for BTEX 2	1-Aug-01	3	<del>-</del> -	0.4		21		160		6,010 82		8.8 16
	5-Jun-02	2	<	0.22		19		36		39	<	0.4
	19-Nov-03	4	<	0.2	<	0.2	<	0.2	<	0.6	Ĵ	1
	15-Jun-04	2	<	0.2		1.2		29		4.8	<	1
	10-Aug-04 12-Jan-05	3 1	<u> </u>	0.2		28		150		100	J	1
Lower Grab Water Sample	8-Apr-05	2	< <	0.2 0.2	<	0.2	<u> </u>	0.2	<u> </u>	0.6	J	3
Upper Grab Water Sample	8-Apr-05	2	<del>-</del>	0.2	~	0.2	<	0.2 0.2	<	0.6 0.6	<_<	1
	26-Jul-05	3	<	0.2		6.2		40		20	<	1
	26-Oct-05	4	<	0.2	J	1		2.7		3.3	~	1
	26-Oct-05	4 <sup>duplicate</sup>	<	0.2	J	0.8		2.5		3	<	1
MW19-3	<del></del>						-					
14141 12-2	12-Mar-98	1		0.0		6.4.4						
-	2-Aug-01	3	<u> </u>	0.2	< <	0.14	<u> </u>	0.14	<	0.5	<	1.2
	5-Jun-02	2	<del>`</del>	0.22	· <	0.2	< -	0.2 0.24	<u> </u>	0.2	<	0.5
	19-Nov-03	4	~	0.2	<	0.10	<	0.24	<u> </u>	0.2	< <	0.5 0.9
100										0.0	<del></del>	0.5
MW19-4											$\neg \neg$	
	12-Mar-98	11	<_	0.2	<	0.14	<	0.14	<	0.5	<	1.3
	2-Aug-01	3	<	0.2	<	0.2	<	0.2	<	0.2	<	0.5
	6-Jun-02 19-Nov-03	2	<	0.22	<	0.18	<	0.24	<	0.2	<	0.5
	28-Feb-06	4	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	50-1 6D-00		<	0.2	<	0.2		2.2	<	0.6	<	1

# TABLE 2 L.E. CARPENTER AND COMPANY (LEC) Borough of Wharton, Morris County, New Jersey MW19/Hot Spot 1 Groundwater Monitoring Data

					ANAL	YTICAL PARAM	ETERS		··		<del></del>	
MONITORING WELLS	SAMPLE DATE	QUARTER		Benzene	Eti	rylbenzene		Toluene	То	tal Xylenes	Ethyl	bis-2- hexylphthalate (DEHP)
		UNITS		ug/l	-	ug/l		ug/l		ug/l	<u> </u>	ug/l
	S	OLUBILITY LIMIT		1,700,000	٠.	152,000		515,000		175,000		
NEW JERSEY GROUNDWATER	QUALITY STAND	ARDS (NJGWQS)		1		700		1,000		40		30
181144	**			<u> </u>								
MW19-5		ļ	· · ·					, .		///		
Dilution factor for BTEX 5000	12-Mar-98	1 1	_<	1,000		1,920		123,000		10,100		42
Dilution factor for STEX 1000		3	<	190		870		79,000		5;200		3.2
Ditution factor for BTEX 500	7-Mar-02	1	_<_	140		300		10,000		1,700		1.3
Dilution factor for BTEX 5000, for DEHP 20	5-Jun-02	2 2 <sup>duplicate</sup>	<_	1,100		1,100		92,000	L	6,300	<	9.8
Dilution factor for BTEX 5000, for DEHP 20	5-Jun-02	·	_<_	1,100		1,300		92,000		6,900	<	9.4
	19-Nov-03	4	<	0.2	_ <	0.2		4.3	J	0.9	<	0.9
	18-Dec-03	4 <sup>resample</sup>	<	0.2		3.7		240	L	24	<	0.9
	16-Jun-04	2	<	100		1,400		83,000		7,400	J	. 1
	10-Aug-04	3	. <	200		2,800		140,000		14,000	J	1.
Dilution factor for BTEX 10	13-Jan-05	1	<	2		64		3,100		340	<	1
Dilution facioi for BTEX 200, Lower Grab Water Sample	9-Apr-05	2	<	40		1,000		27,000		5,300	·J	1
Upper Grab Water Sample	9-Apr-05	2	<	0.2	J	0.4		9.5	J	2.3	٧	1
Dillution factor for BTEX 500	26-Jul-05	3	<.	100		2,600		100,000		13,000	~	0.9
	27-Oct-05	4	_<	0.2		6.8		140		37	~	1
Dillution factor for BTEX 100	28-Feb-06	1	<	20		290		19,000		1,500	<	1
MW19-6												
Dilution factor for BTEX 200	15-Nov-99	4	<	62		94		3,400		500		32
Dilution factor for BTEX 2	1-Aug-01	3	<	0.4	,	14	· · ·	390	•	47		28
)	5-Jun-02	2	<	0.22		1.7		13		4.1		2.3
·	18-Nov-03	4	<	0.2	<	0.2	J	0.3	_<	0.6	J	6
	17-Jun-04	2	<	0.2	J	0.4	Ť	1.1		1.2	<del>-j</del> -	3
	10-Aug-04	3	<	0.2		4.6		38		18	J	4
	13-Jan-05	1	<	0.2		4		36		14	J	1
Lower Grab Water Sample	9-Apr-05	2	<	0.2		16		160		64		1
Upper Grab Water Sample	9-Apr-05	2	<	0.2		11		74		37	~	1
	26-Jul-05	3	<.	0.2	<del></del>	3.6		27		14	Ĵ	2
	27-Oct-05	4	<	0.2		5.4		110	-	25	~	0.9
	28-Feb-06	1	<	0.2		5.8		65		23	~	1
MW19-7	4											
Dilution factor for BTEX 50	15-Nov-99	4	<	16		100	· -	51		1,400	<	4.1
Dilution factor for BTEX 2	1-Aug-01	3		6.7		6.6		13		680	<	0.4
Ditution factor for BTEX 5	7-Mar-02	1		3	<	1.3	<	1.3		250		1.6
	5-Jun-02	2		0.48		1.6		27		27	<	0.4
<u> </u>	19-Nov-03	4		4.7	J	0.4	<u> </u>	0.3		460	J	1
	16-Jun-04	2	J	2.8		130		2,100		630	<	11
	16-Jun-04	2 <sup>duplicate</sup>	J	4		130		2,100		610	<	1
	10-Aug-04	3.		2		1.6		1.3		20	<	1
Dilution factor for BTEX 2	12-Jan-05	1		6.1		90		240		760	<	1
Lower Grab Water Sample; Dilution factor for BTEX	12-Jan-05	1 duplicate		2.9		45		120		380	٧.	1
25	7-Apr-05	2	J	9.5		210		2,700		1,400	· ·	1
Upper Water Grab Sample; Dilution factor for BTEX 10	7-Apr-05	2	J	13		370		5,600		1077		
Lower Grab Water Sample	27-Jul-05	3		2.2		0.2	Ť		<del></del>	2,300	_<_	1
Upper Grad Water Sample	27-Jul-05	3		1.5			J	0.2	<u> </u>	1.7	_<	0.9
Dilution factor for BTEX 200	27-Oct-05	4	J	62	<	0.2	J	0.5	J	2.4	<	1
Dilution factor for Total Xylenes 5	28-Feb-06	1	<u> </u>	7.5		710		16,000		3,600	<	1
Dilution factor for Total Xylenes 5	28-Feb-06	duplicate		7.5		4.9	J	0.3		870	<	1
Annual Indian Aylanda a	20-1 6D-00			7.5		5.0	J	0.3		840	<	0.9

#### TABLE 2 L.E. CARPENTER AND COMPANY (LEC) Borough of Wharton, Morris County, New Jersey

MW19/Hot Spot 1 Groundwater Monitoring Data

					ANAL	YTICAL PARA	METERS					
MONITORING WELLS	SAMPLE DATE	QUARTER		Benzene	Eti	nyibenzene		Toluene	To	ital Xylenes	Ethyl	bis-2- hexylphthalat (DEHP)
		UNITS		ug/l		ug/l	1	ug/l	1	ug/l	1	ug/i
	SC	DLUBILITY LIMIT	<u> </u>	1,700,000		152,000		515,000		175,000		
EW JERSEY GROUNDWATER	QUALITY STANDA	ARDS (NJGWQS)		1	1	700		1,000		40		30
MW19-8			<del></del>									
	15-Nov-99				<u> </u>	2722	-					
Dilution factor for BTEX 50  Dilution factor for BTEX 2		4	_<	0.31	<	0.38	<	0.34	<	0.4	<	4.1
District lactor for 5 LEX 2	1-Aug-01 5-Jun-02	3		0.5	<	0.2	<	0.2	<u> </u>	0.2	<	0.4
	19-Nov-03	4	<	0.22	<	0.18	<	0.24	<	0.2	<	0.4
	17-Jun-04		_<_	0.2	<	0.2	<	0.2	<u> </u>	0.6	<u> </u>	0.9
		2	<	0.2	<	0.2	<	0.2	<u> </u>	0.6	<	1
	11-Aug-04	3	_<_	0.2	<u> </u>	0.2	<	0.2	<	0.6	<	1
	12-Jan-05	1	<	0.2	J	0.3	<	0.2	<	0.6	<	1
	11-Apr-05	2	<	0.2	<	0.2	<u> </u>	0.2	<	0.6	<	1
	27-Jul-05	3	<	0.2	_ <	0.2	<	0.2	<	0.6	<	1
	27-Oct-05	4	_ <	0.2	<	0.2	<	0.2	<	0.6	<	1
MW19-9D				-			-		┼	<del> </del> -	<u> </u>	
Dilution factor for BTEX 2	1-Aug-01	3	<	0.2	<	0.2	<	0.2	<	0.2	<del>-</del>	0.5
	5-Jun-02	2	<del>`</del>	0.22	_ <	0.18	~	0.24	-	0.2	┼	
	19-Nov-03	4	~	0.2	<	0.10	<del>\</del>	0.24	<	0.6	+	1.9
	16-Jun-04	2	~	0.2	<del>\</del>	0.2	\ \ \	0.2	-		J.	
	10-Aug-04	3	~	0.2	->	0.2	-	0.2	-	0.6	J	2
	13-Jan-05	ĭ	<del>-</del>	0.2	<del>                                     </del>	0.2			<	0.6	<u> </u>	1
	11-Apr-05	2	~~	0.2	<del>                                     </del>	0.2	+	0.2	<	0.6	J	1
	27-Jul-05	3	~	0.2	<	0.2	<	0.2	<	0.6	. <	1
	27-Oct-05	4	<	0.2	<	0.2	< <	0.2	< <	0.6	< <	1 1
MW19-10												
	17-Jun-04	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	11-Aug-04	- 3	<	0.2	<	0.2	<	0.2	.<	0.6	<	1
	11-Aug-04	3 <sup>duplicate</sup>	<	0.2	<	0.2	<	0.2	<	0.6	~	0.9
	12-Jan-05	1	<	0.2	~	0.2	<del></del>	0.2	· ·			
Lower Grab Water Sample	9-Apr-05	2		0.2	<u> </u>	0.2	<		<	0.6	<-	11
Upper Grab Water Sample	9-Apr-05	2	~	0.2	-	0.2	<	0.2	<u> </u>	0.6	<	1
	26-Jul-05	3	~~	0.2	-		<	0.2	<	0.6	< .	1
	26-Oct-05	4	<del></del>	0.2	<	0.2 0.2	<	0.2	<	0.6	<_	1
	20 00:00			0.2	-	0.2	<	0.2	<u> </u>	0.6	<	1
MW19-11							<del> </del>		<del> </del>			
	13-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6	<	1
Lower Grab Water Sample	7-Apr-05	2	<	0.2	~	0.2	~	0.2	~	0.6		
Upper Grab Water Sample	7-Apr-05	2	<	0.2	~	0.2	<	0.2	<	0.6	<	1
	26-Jul-05	3	<	0.2	~	0.2	<	0.2	<	0.6	<	1
	26-Oct-05	4	<	0.2	<	0.2	~	0.2	<	0.6	<u>۷</u> ا	1
OFLO												
GEI-2i	04:505.05											
	24-Feb-95	1	<	0.3	<	0.3		0.4	<	0.1		27
	6-Jun-02	2	<	0.22	<	0.18	<	0.24	<u> </u>	0.2		1.4
GEI-2S		-										
	24-Feb-95	1	<	8.2		46		1,500		380		7.0
			<u> </u>								· .	7.6
	25-Mar-98	1		I N5 I		NS		l Nic i		NE I	P 1	0.5
	25-Mar-98 6-Jun-02	2		NS 1.2		NS 2.6		NS 16		NS 5.1	В	2.5

#### TABLE 2

#### L.E. CARPENTER AND COMPANY (LEC)

### Borough of Wharton, Morris County, New Jersey MW19/Hot Spot 1 Groundwater Monitoring Data

					ANALY	TICAL PARA	METERS					
MONITORING WELLS	SAMPLE DATE	QUARTER	E	Senzene	Eth	ylbenzene	. 1	l'oluene	Tot	al Xylenes		bis-2- exylphthalate (DEHP)
		UNITS		ug/l	1	ug/l		ug/l		ug/l		ug/l
	SC	LUBILITY LIMIT	1,	,700,000	1	52,000		515,000		175,000		
NEW JERSEY GROUNDWATER	QUALITY STANDA	ARDS (NJGWQS)		1		700		1,000		40		30
Atmospheric Blank												
	13-Jan-05	1	`<	0.2	<	0.2	<del>                                     </del>	0.2	_	0.6	<	1
	8-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	~	1
	26-Jul-05	3	<	0.2	<	0.2	<	0.2	<	0.6	<b>V</b>	1
	27-Oct-05	4	<b>&lt;</b> .	0.2	٧	0.2	<	0.2	<	0.6	T <	1
	28-Feb-06	1	<	0.2	<	0.2	<	0.2	<	0.6	<	1
Rinsate Blank					ļ.	***	-					
	14-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	9-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1
	27-Jul-05	3	<	0.2	<b>'</b>	0.2	<	0.2	<	0.6	<	1
	27-Oct-05	4	<	0.2	<b>/</b>	0.2	<	0.2	<	0.6	<	1
	28-Feb-06	1.	<	0.2	<	0.2	<	0.2	<	0.6	<	1
Trip Blank									-		1.	
	13-Jan-05	1	. <	0.2	<	0.2	<	0.2	<	0.6		NA
	9-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6		NA NA
	27-Jul-05	3	<	0.2	<	0.2	<	0.2	<	0.6		NA
	27-Oct-05	4	٧	0.2	<	0.2	< .	0.2	<	0.6		NA
	28-Feb-06	1	٧	0.2	<	0.2	<	0.2	<	0.6		NA

#### LEGEND

ug/L = micrograms per liter

NJGWQS = New Jersey Groundwater Quality Standards

ROD: Record of Decision

NA = Not Applicable

NS = Not Sampled

ND: No Detection

NR = Not Run

duplicate sample

Concentration exceeds NJGWQS

B: Analyte also detected in blank

- 4.0

J: Estimated value. Value is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)

#### NOTES

- (1) Low flow sampling initiated 1st quarter 2002
- (2) GEI series wells are piezometers installed by Weston
- (3) GEI series wells, MW-19-3, and MW-19-4 are not sampled under revised groundwater monitoring program effective 1Q05.

## L.E.Carpenter and Company (LEC), Borough of Wharton, Morris County, New Jersey MW19/Hot Spot 1 Quarterly Groundwater Monitoring MNA Analytical Data

Well ID	Sampling Event	Heterotrophic Plate Count	Alkalinity to pH 8.3	Alkalinity to pH 4.5	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate <sup>(1)</sup>	Methane
(units)		cfu/mi	mg/l	mg/i	mg/i	mg/i	mg/l	mg/l	mg/i	mg/l	ug/l
MW-19	.1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS.
	2Q04	80	ND	207	30	589	. ND	ND	0.054	3.6 J	150
	3Q04	630	ND	268	30.9	553	ND	ND	0.12	1.7 J	230
	1Q05	350	ND	241	17.2	347	0.22	ND	ND	7.4	230
<del> </del>	2Q05 <sup>L</sup>	390	NS	NS	10.8 J	413	2.8	ND ND	ND	33.3	3.0 J
· · · · · · · · · · · · · · · · · · ·	2Q05 <sup>U</sup> 3Q05	1,400	NS NS	NS	14.8	455	3.2	ND	ND	30.4	2.0 J
	4Q05	120	NS NS	NS NS	67.2	1070	0.04	1.3	ND	6	33
	1Q06	25	NS NS	NS NS	23.2 35.6	620 559	0.56	0.88	ND	37.4	19
			110		33.0	355	ND	ND	ND	3:3 J	140
MW-19-1	1Q04	NS	NS.	NS	NS	NS	NS	NS	NS NS	NS	NS.
	2Q04	100	ND	162	ND	725	1.4	ND	ND	32.4	ND
	3Q04	49	ND	184	3.2 J	928	3.9	ND	ND	35.3	ND
	1Q05	43	ND	152	ND	404	2.1	ND	ND	27.9	ND
· · · · · · · · · · · · · · · · · · ·	2Q05 <sup>L</sup>	410	NS	NS	16.4	1,440	2.9	ND	ND	34.1	ND
	2Q05 <sup>U</sup>	350	NS	.NS	3.2 J	1,430	2.8	ND	. ND	32.9	ND
Dilution factor for Nitrate	3Q05 4Q05	53 240	NS NS	NS NS	9.2 J	1,140	4.1	ND	ND	39	Z
Diano, including	40200	240	NO	NS	12.4	659	4.6	ND	ND	44.2	ND
MW-19-2	1Q04	NS	NS	NS	NS	NS NS	NS	NS	NS.	NS	NS
	2Q04	10	ND	335	6.0 J	704	ND ND	ND ND	ND ND	33.6	1600
	3Q04	87	ND	176	6.D.J	916.	0.87	ND	ND	23.9	280
	1Q05	110	ND	395	5.2 J	568	0.093 J	0.13 J	ND	69.4	26
	2Q05 <sup>L</sup>	160	ND	ND	11.6 J	780	0.62	0.17 J	ND	29.6	ND
·	2Q05 <sup>U</sup>	_150	ND	ND	ND	750	0.64	ND	NĎ	29.3	ND
-	3Q05	8	NS	NS	3.2 J	976	1	0.12 J	ND	27.2	120
	4Q05 4Q05D	220	NS	NS	ND	864	0.78	ND	ND	60.3	.35
	40000	92	NS	NS	ND)	908	0.6	ND	ND	62.1	49
MW-19-4	1Q06	12	NS	NS	ND	730	2.4	ND	1/0		1/2
		·- ·-	.,,,	.,,,	NU	7.30	2.4	I ND	ND	37.4	ND
MW-19-5	1Q04	NS	NS	NS	NS	NS	NS	NS	NS.	NS	NS
	2Q04	NS.	NS	NS	NS	NS	NS	NS.	NS	NS	NS
	3Q04	180	ND	228	14	942	0.06 J	ND	ND	15.7	2100
	1Q05	380	ND	126	3.6 J	174	0.49	ND	ND	15.8	. 34
	2Q05 <sup>L</sup>	3000	NS	NS	3.6 J	177	ND	ND	ND	12	380
	2Q05 <sup>U</sup>	.: 100	NS	NS	3.6 J	141	0.43	ND	ND	8.7.	ND
	3Q05 4Q05	69 58	NS	NS	6.8 J	463	ND	ND	ND	7.7	1700
· · · · · · · · · · · · · · · · · · ·	1Q06	12	NS NS	NS NS	ND ND	144 287	0.38	ND	ND	12.8	3.8 J
	1,000		110	INS .	IND	267	0.97 J	ND	ND	11.2	290
MW-19-6	1Q04	NS	NS	NS	NS	NS	NS	NS	NS .	NS	NS
	2Q04	35	ND	151	10.4.J	1670	1.6	ND	ND ND	37.3	140
	3Q04	110	ND	178	18.8	1240	1.1	ND	0.062	38.3	140
	1Q05	82	ND	204	11.2 J	544	1.7	ND	ND	44	130
	2Q05 <sup>L</sup>	23	NS	NS	18	1180	1.3	0.29 J	ND	33.5	44
<del></del>	2Q05 <sup>U</sup>	160	NS NS	NS NS	ND	1190	1 .	ND	ND	32.7	96
	3Q05 4Q05	90	NS NS	NS NS	40.8	1520	1.1	ND	ND	35	38
	1Q06	14	NS NS	NS NS	10.8 J 4.4 J	940 634	3.5	ND	ND	47.8	43
			- 170	140	∓. <b>⇔</b> ∪	034	1.8	ND.	ND	36.6	50
MW-19-7	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	110	ND	142	6.8.J	2110	0.21	ND	ND ND	47.2	5200
	2Q04D	88	ND	152	9.2 J	2040	0.21	0.15 J	ND	37.3	5400
Dilution factor for Methane 250	3Q04 1Q05	2000 75	ND ND	175	4.4 J	1920	1.5	ND	ND	64.4	2400
Dilution factor for Methane 250	1Q05D	77	ND ND	200	6.0 J 7.2 J	774 754	3.2	ND ND	ND.	29.1	10,000
	2Q05 <sup>L</sup>	32	ÑŜ	NS NS	54	472	3.2 ND	ND ND	ND ND	30.5	11,000
	2Q05 <sup>U</sup>	41	NS NS	NS NS	48	481	ND ND	0.50 J	0.45	ND	13,000
	3Q05 <sup>L</sup>	17	NS	NS	45.6	1450	ND ND	0.35 J	0.32	ND	10,000
	3Q05 <sup>U</sup>	17	NS	NS	31.6	1280	0.22	ND ND	0.3	19.2	2,900
Dilution factor for Methane 250	4Q05	16	NS	NS NS	32	926	0.22	0.29 J 0.5	0.1	25.7	1,600
	1Q06	14	NS .	NS	33.2	621	ND ND	ND ND	0.23	8.9 2.2 J	7,700 10,000
	1Q06D	10	NS	NS	36.8	628	ND	ND I	0.3	1.6 J	10,000
S Bat do 2											. 1,0,000
MW-19-8	2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04 3Q04	45	ND	143	14.4	1120	ND	ND	0.15	22.8	79
Dilution factor for Methane 5	1Q05	15 91	ND ND	152	7.2 J	573	ND	0.24 J	0.12	11.5	790
	2Q05	270	NS .	142 NS	25.2	1150	ND ND	ND	0.18	16.3	510
	3Q05	ND ND	NS NS	NS NS	20 8.8.J	796 876	ND.	ND	ND	23.7	5.3
	4Q05	210	NS NS	NS NS	4.4 J	926	0.33	0.26 J ND	ND ND	20.3	74
							V.00	145	ND	24.6	24
<del></del>								<u> </u>			

## L.E.Carpenter and Company (LEC), Borough of Wharton, Morris County, New Jersey MW19/Hot Spot 1 Quarterly Groundwater Monitoring MNA Analytical Data

Well ID	Sampling Event	Heterotrophic Plate Count	Alkalinity to pH 8.3	Alkalinity to pH 4.5	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate <sup>(1)</sup>	Methane
(units)		cfu/ml	mg/l	mg/l	mg/l	mo/l	mg/l	mg/l	mg/i	mq/l	ug/l
MW-19-9D	1Q04	NS	NS	NS	. NS	NS	NS	NS	NS	NS	NS
	2Q04	210	ND	211	6.0 J	621	0.14	0.33 J	ND	18.2	1300
	3Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1Q05	NS	NS	NS	NS	NS.	NS	NS	NS	NS	NS
	2Q05	NS	NS	NS.	NS	NS	NS	NS	NS	NS	NS
	3Q05	NS	NS	NS	NS	NS	NS	NS	NS	NS I	NS
	4Q05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19-10	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	34	ND	109	6.8 J	563	ND	ND	ND	18	2.6 J
	3Q04	18	ND	98	10.4 J	908	ND	ND	. ND	19.2	3.3 J
	3Q04D	22	ND	97.8	10.8 J	890	ND	0.24 J	ND	17.9	2.9 J
	1Q05	29	ND	127	5.2 J	625	ND	ND	ND	16.9	74
	2Q05 <sup>L</sup>	170	NS	NS	32.4	653	ND	ND	ND	18.1	48
	2Q05 <sup>U</sup>	93	NS	NS	32	691	ND	0.12 J	ND	18.3	48
	3Q05	26	NS	NS	10.4 J	560	ND	ND	ND	16	ND
• • • • • • • • • • • • • • • • • • • •	4Q05	56	NS	NS	17.2	654	ND	ND	ND	15.3	3.2 J
MW-19-11	1Q05	940	ND	205	4.8 J	4,750	2.2	ND	ND	65.6	9.9
	2Q05 <sup>L</sup>	NS	NS	NS	64	731	ND	0.42 J	ND	18	930
	2Q05 <sup>U</sup>	14	NS	NS	27.2	740	ND	ND	ND	17.2	1,200
<del></del>	3Q05	63	NS	NS	106	555	ND	ND	0:11	21.5	26
Dilution factor for Methane 10	4Q05	80	NS	NS	15.2	854	ND	0.32 J	ND ND	25.5	440
		* .									
Atmospheric Blank	1Q05	> 5700	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4Q05	.5	NS	NS	ND	10.0 J	ND	ND	ND.	0.30 J	ND
	1Q06	. 2	NS	NS	ND	ND.	ND	ND	ND	ND	ND
Rinsate Blank	1Q05	36	ND	. ND.	ND	ND	ND	ND	ND	ND I	ND
	3Q05	ND	NS	NS	ND"	ND	ND	ND	ND	ND	ND
	4Q05	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND
	1Q06	ND	NS	NS	ND	ND	ND	ND	ND	ND	ND

#### Notes:

As mentioned in January 13, 2005 letter, only the MW-19 Hotspot wells will be sampled for MNA parameters due to the implementation of Source Reduction on the L.E. Carpenter property effective 1Q05.

(1) Sulfate has a dilution factor of 5, except for blank samples or unless otherwise noted.

NS = Not Sampled

ND = Not Detected

Lower Grab Sample Upper Grab Sample

#### L.E.Carpenter and Company, Borough of Wharton, Morris County, New Jersey MW19/Hot Spot 1 Quarterly Groundwater Monitoring MNA Field Data

Well ID	Event	DO (mg/L)	рН	ORP (mV)	Conductivity (uS/cm)	Turbidity (NTU)	Temperature (°C)	Ferrous Iron (ppm)	Alkalinity (ppm)	CO2 (mg/L)
MW-19	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	10.97	7.23	24	890	2	13.94	. NM	160	70
	3Q04	0.1	7.62	-10	1179	2	16.18	<10	200	_95
	1Q05	_0.2	7.67	100	590	5	11.82	9	NM <sup>(1)</sup>	121
	2Q05 <sup>L</sup>	1	7.84	NM	734	10	8.6	0.3	30	<10
	2Q05 <sup>U</sup>	1 1	7.69	NM	760	10	8.46	0.4		
<del> </del>	3Q05	1 1	7.03	185	1920	9	15.86	>10	29	<10
· · · · · · · · · · · · · · · · · · ·	4Q05	5.34	6.47	87	1005	4	15.01	>10	110	60
	1Q06	3.53	6.59	-50	978	13	8.72	>10	110	18
		1 5.55	0.00	.50	- 3,0	. 10	0.72	>10	11	>100
MW-19-1	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	13.9	7.22	180	1373	10	13.9	NM	125	17
	3Q04	1	7.5	80	1910	10	18.49	0.2	90	28
	1Q05	1 1	7.8	213	676	10	11.49	0.2	NM <sup>(1)</sup>	
	2Q05 <sup>L</sup>	0.8	7.6	NM.	2540	22				30
	2Q05 <sup>U</sup>	1 1					9.15	0.2	75	<10
	3Q05	1 1	7.67 7.22	NM	2540	10	8.5	. 0.1	90	<10
	4Q05	6.54	7.06	208	2260	20	15.23	0.1	100	10
<del></del>	4005	0.54	7.00	291	1149	36	16.70	0.1	45	<10
MW-19-2	1004	NS	NS	NS	NS	NS	116			
14144-13-2	2004	4.45	7.3	83	1199		NS	NS	NS	NS
	3004	5	7.45	. 59.	1830	6	13.97	NM	210	60
	1Q05	1				9	16.97	2	130	15.5
·			7.3	249	825	10	11.02	0	NM <sup>(1)</sup>	63
	2Q05 <sup>L</sup>	0.8	7.8	ŇM	1312	29	7.76	0.1	100	<10
	2Q05 <sup>U</sup>	0.8	7.76	NM	1316	10	8.00	0.1	100	10
	3Q05	1 1	7.59	204	1980	3	14.87	1	100	- 10
	4Q05	4.75	6.79	290	1442	1	16.50	0.2	105	15.5
1501.45.4		<u> </u>								
MW-19-4	1Q06	7.62	7.53	-64	1351	14	5.61	0.6	12	>50
<del> </del>		<del></del>								
1811 4A-C	1004	<del>                                     </del>								
MW-19-5	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	10.16	7.02	41	1550	4	12.89	NM	130	70
	3Q04	1 1	7.26	87	1740	19	16.3	2	150	60
	1005	1 1	7.94	226	269	9	10.59	.0	NM <sup>(1)</sup>	63
	2005	1	7.94	NM	2640	10	8	. 0	45	16
	2Q05 <sup>U</sup>	0.8	7.99	NM	2100	38	6.96	Ö	45	10.5
	3Q05	0.8	7.44	184	920	2	15.15	>10	100	35
	4Q05	1.84	6.27	217	216	10	15.15	0.1	30	11
	1Q06	3.35	6.35	249	512	3	8.17	.0	12	>100
MW-19-6	1004	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	5.48	6.86	56	2640	. 10	15.24	NM	80	33
	3Q04	1	7.43	83	2490	4	16.61	0.4	125	20
	1Q05	Ī	7.73	241	867	12	11.79	0	NM <sup>(1)</sup>	41
	2Q05 <sup>L</sup>	1	7.5	NM	1870	27	10.64	0.1	75	15
	2Q05 <sup>U</sup>	1	7.48	NM	1790	2	9.89	1	80	20
	3Q05	1	7.28	191	3030	36	15.2	. 0.4	70	20
	4Q05	5.39	5.86	307	1550	9	14.76	0	- 80	10.5
	1Q06	3.71	6.6	237	1116	4	9.93	0	12	>10.5
· · · · · · · · · · · · · · · · · · ·							+			-,00
MW-19-7	1Q04	NS	NS	N\$	NS	NS	NS	NS	NS	NS
	2Q04	5.89	6.82	48	380	6	14.34	NM	95	90
	3Q04	1	6.92	113	4040	2	16.77	1	75	70
	1Q05	0.6	7.16	281	1388	1	11.34	3	NM <sup>(1)</sup>	63
	2Q05 <sup>L</sup>	0.05	7.82	102	938	25	11.7	15		
	2Q05 <sup>U</sup>	1	7.8	NM	961				160	36
	3Q05 <sup>L</sup>	0.8	7.03	90		49	11.22	15	200	29
					2670	17	14.76	>10	95	8.0
<del></del>	3Q05 <sup>U</sup>	1 1 50	7.02	185	2460	5	16.02	>10	70	35
·	4Q05 1Q06	1.58 1.86	5.98	-44	1434	14	14.85	>10	- 11	30
	1 7(11)6	( 1 M/R	6.2	43	1130	14	10.81	>10	>100	. >100

#### L.E.Carpenter and Company, Borough of Wharton, Morris County, New Jersey MW19/Hot Spot 1 Quarterly Groundwater Monitoring MNA Field Data

Well ID	Event	DO (mg/L)	рН	ORP (mV)	Conductivity (uS/cm)	Turbidity (NTU)	Temperature (°C)	Ferrous Iron (ppm)	Alkalinity (ppm)	CO2 (mg/L)
MW-19-8	1004	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	3.98	6.9	-24	2010	10	15.69	NM	125	30
	3Q04	0.4	7.52	48	1093	7	18.29	2	100	19
	1Q05	0.3	7.06	161	177	16	12.92	10	NM <sup>(1)</sup>	28
	2Q05	0.8	7.92	NM	1510	47	10.82	6	70	19
	3Q05	0	7.07	147	1820	2	18.86	3	80	19
	4Q05	6.74	6.10	330	1460	5	17.19	3	85	20
MW-19-9D	1Q04	NS	NS	NS	NS	NS	NS	**	**	**
	2Q04	3.03	7.11	-28	480	63	14.64	**	**	**
	3Q04	0.2	7.4	8	545	35	15.7	**	** .	**
	1,Q05	1.5	7.14	193	871	267	11.58	**	**	**
	2Q05	0.05	7.91	NM	471	70	12.12	**	**	**
	3Q05	0	7.35	189	552	2	16.4	**	**	**
	4Q05	0.94	5.78	-91	465	1	13.96	**	**	**
MW-19-10	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	3.82	6.78	85	1050	. 7	13.94	NM.	80	.25
	3Q04	0.1	7.35	107	1498	11	15.56	1.5	65	20
	1Q05	0.15	7.25	285	1039	28	13.19	2	NM <sup>(1)</sup>	20
	2Q05 <sup>L</sup>	0.8	7.47	NM	1209	52	12.18	0.4	70	13
	2Q05 <sup>U</sup>	. 1	7.48	NM	1282	41	11.18	1	75	13
2	3Q05	1	7.62	212	1148	18	16.47	0.6	70	13
	4Q05	9.89	6.73	229	1167	39	15.00	1	60	10
MW-19-11	1Q05	1.5	7.01	215	740		100		A 15 a(1)	
	2Q05 <sup>L</sup>	0.8	7.88	NM	1424	8	10.3	0	NM <sup>(1)</sup>	65
	2Q05 <sup>0</sup>					38	12.18	4	110	17
· · · · · · · · · · · · · · · · · · ·	3Q05	0.8	7.8 7.72	NM	1442	10	12.12	4	90	15
	4Q05	2.5	6.51	209	1155	77	16.63	1	80	12.5
	4000	4.5	0.31	271	1,470	10	15.86	0.4	85	15

#### Notes

As mentioned in January 13, 2005 letter, only the MW-19 Hotspot wells will be sampled for MNA parameters due to the implementation of Source Reduction on the L.E. Carpenter property effective 1Q05.

NS = Not Sampled

NM = Not Measured

<sup>\*\*</sup> Additional field MNA parameters not required for MW-19-9D.

<sup>(1)</sup> Laboratory analyzed for alkalinity due to destroyed field kits.

Lower Grab Sample

Upper Grab Sample

## Table 5 L.E. CARPENTER AND COMPANY (LEC) Borough of Wharton, Morris County, New Jersey Surface Water Monitoring Data

100					ANAL	rtical Para	viic / E h	9		3		
ITORING WELL	S BAMPLE DATE	QUARTER		Senzena	Ė	ylbenzena		Toluene	70	tal Xylenes		bls:2-
14.	17779				-			-	10	- Ayrones	Eth	thexylph (DEHP
		UNITS		ug/l		ug/l		ug/l		ug/l		ug/l
	CE WATER BUALIT (NJSWQS)	Mary and the second second		0.15		3,030		7,440		NCS		1.76
SW-D-1	geostras)				+			, <i>3</i> "	-	<del>                                     </del>	+	
05.	8-Apr-05	2Q05	<	0.2	<	0.2	<	0.2	<	0.6	<	1.
	26-Jul-05	3Q05	<del>`</del>	0.2	~	0.2	j	0.5	<	0.6	\ \ \ \ \ \	1.
* ,	26-Oct-05	4Q05	. <	0.2	<	0.2	<	0.2	-	0.6	-	1.
	27-Feb-06	1Q06	<	0.2	<	0.2	~	0.2	<	0.6	J	2.
SW-D-2												
3W-D-2	8-Apr-05	2Q05		NS	+	. NS		NS	+	NS	+	Ali
······································	26-Jul-05	3Q05	<	0.2	J	0.5	<	0.2	+	6.1	+	N:
<del></del>	26-Oct-05	4Q05	~	0.2	J	0.6	<	0.2	J	2.0	<	1.0
	27-Feb-06	1Q06	<	0.2	J	0.8	<	0.2	J	2.7	1	27
SW-D-3						<u>.                                    </u>			+-		-	_
	8-Apr-05	2Q05	< .	0.2		21.0	<	0.2		79.0	J	2.
	26-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	J	1,1	J	7,
	26-Oct-05	4Q005	<	0.2	J	0.4	<	0.2	J	1.4	<	1.0
	27-Feb-06	1Q06	<	0.2	<del>                                     </del>	1.1	<	0.2		3.9	J	6,
SW-R-1				-		<u> </u>		<del></del>		<u> </u>	+-	
	20-Apr-05 <sup>(1)</sup>	2Q05	<	0.2		17.0	7	0.8	1	99.0	J	2.
	25-Jul-05	3Q05	٧	0.2	<	0.2	<	0.2	<	0.6	Ĵ	1.0
	27-Oct-05	4Q05	۸	0.2	٠٧.	0.2	<	0.2	<	0.6	<	1.0
	27-Feb-06	1Q06	<	0.2	7	0.3	٧	0.2	Ĵ	1.4	<	0.9
SW-R-2											+	
	20-Apr-05	2Q05		NS		NS		NS		NS		NS
	25-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	27-Oct-05	4Q05	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
<del></del>	27-Feb-06	1Q06	<	0.2	J	0.5	<	0.2	J	2.3	<	1.0
SW-R-3					,			· · · · ·	-		<b>-</b>	
	20-Apr-05	2Q05		NS		NS		NS		NS	1	NS
	25-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
. "	27-Feb-06	1Q06	<	0.2	<	0.2	<	0.2	<	0.6	. <	1.0
SW-R-4					+		_				+-	
	20-Apr-05	2Q05		NS		NS	-	NS		NS		NS
	25-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	27-Feb-06	1Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
SW-R-5				·								
	20-Apr-05	2Q05		NS		NS		NS		NS		NS
	25-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	27-Feb-06	1Q06	<	0.2	<	0.2	<	0.2	٧	0.6	<	1.0
SW-R-6												
	27-Feb-06	1Q06	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0

#### LEGEND

ug/L = micrograms per liter

NCS: No Criteria Specified

NS = Not Sampled

duplicate sample

Concentration exceeds NJSWQS

38.0

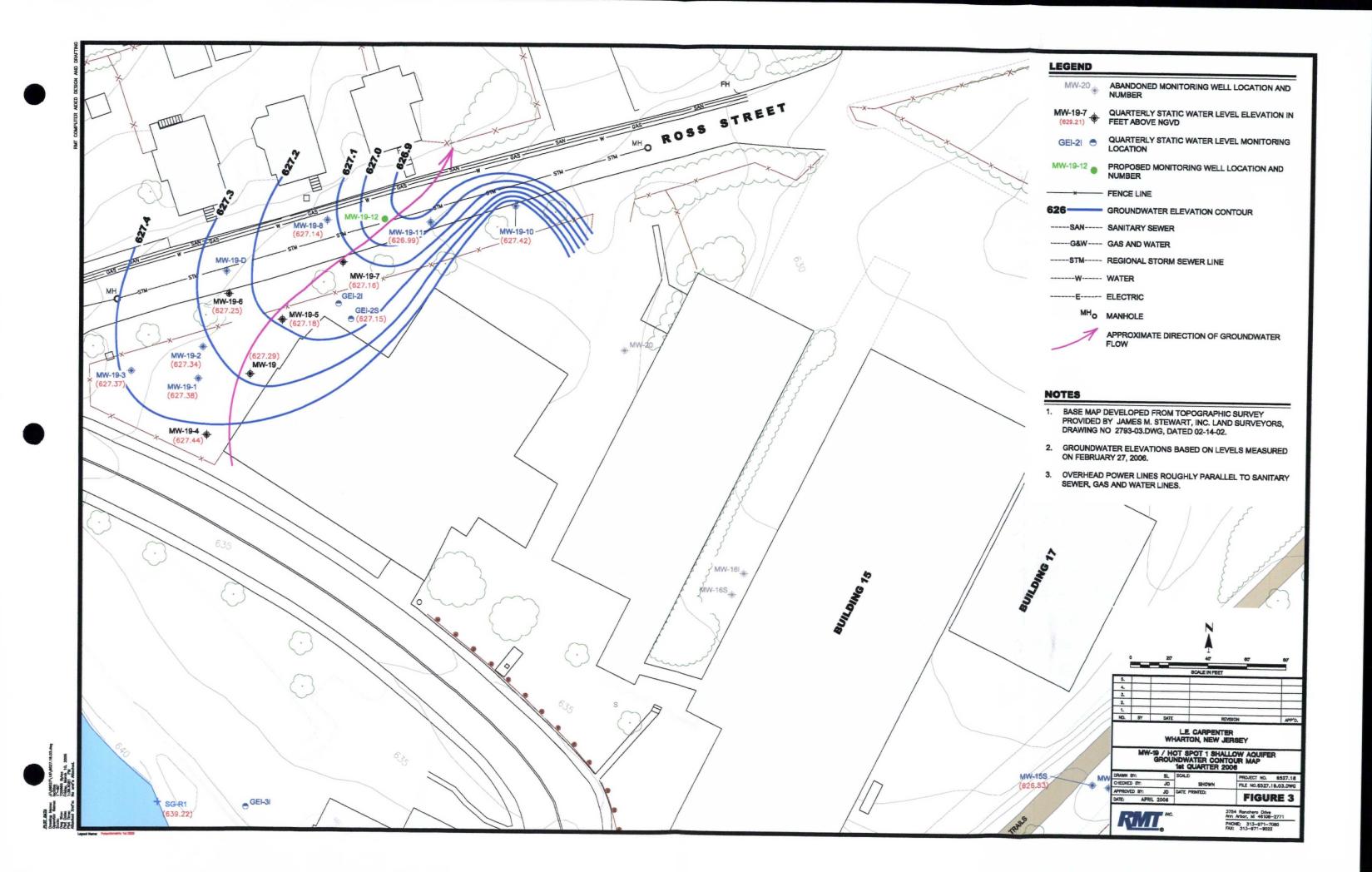
B: Analyte also detected in blant

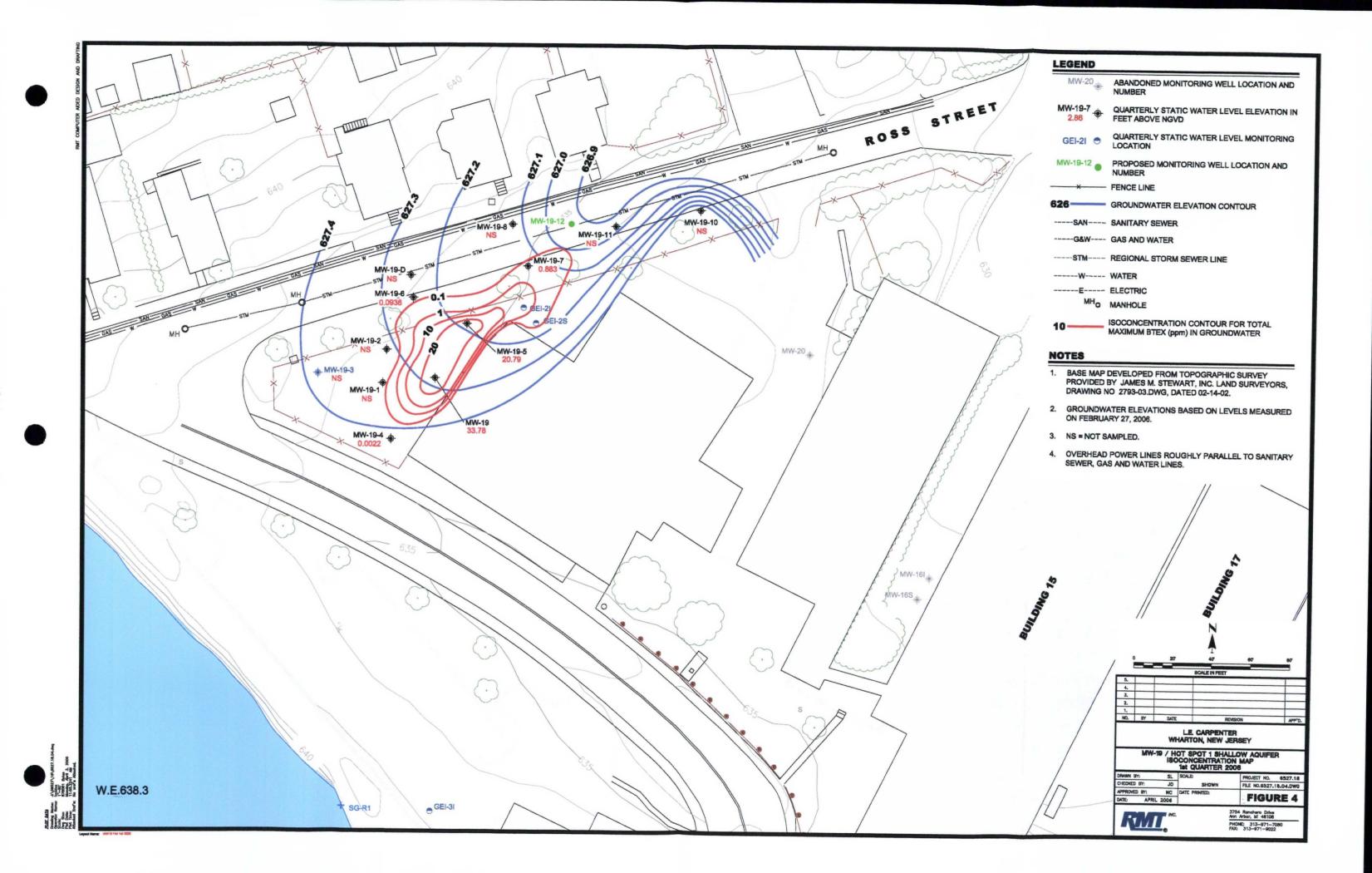
J: Estimated value. Value is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)

<sup>\* =</sup> Detection limit is elevated due to interference from other parameter detections. Laboratory will be contacted to lower benzene detection limit to be below the NJSWQS.

<sup>(1)</sup> One surface water sample was collected near the edge of the river immediately adjacent to the location of absorbent booms that were placed in order to prevent any migration into the river of sheen observed on top of quiescent water ponded within the wetland area. Due to bottle mislabeling and laboratory error, each of the five resemple bottles (R-1 through R-5) were analyzed individually instead of as a whole set. The highest concentration detected in any of the five laboratory results for the river sample are listed under SW-R-1 for April 2005.

FIGURE 2





# Appendix A Report Certification

### REPORT CERTIFICATION PURSUANT TO N.JA.C. 7:26E-4.5

"I cartify under penalty of law that I have personally examined and am familiar with the information submitted herein and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant dvil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement, which I do not believe to be true. I am also aware that If I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

Mr. Cristopher R. Anderson
PRINTED NAME
<b>5 -</b> .
Director, Environmental Services
TITLE
L.E. Carpenter & Company
COMPANY
Custopher Andre
SIGNATURE
SIGNATURE
5/05/06
DATE

### Appendix B NJDEP Letters dated December 22, 2005 and February 22, 2006





State of New Jersey

Department of Environmental Protection

Bradley M. Campbell Commissioner

DEC

DEC 2 2 2005

Christopher Anderson
Director Environmental Affairs
L.E. Carpenter and Company
33587 Walker Road
Avon Lake, OH 44012

Re: L.E. Carpenter Superfund Site
Wharton Borough, Morris County, New Jersey

The New Jersey Department of Environmental Protection (NJDEP or Department) as well as the United States Environmental Protection Agency (USEPA) have completed a review of the 3<sup>rd</sup> Quarter Monitoring Report dated October 19, 2005. This document was prepared by RMT, Inc. on behalf of L.E. Carpenter and Company (LE). The NJDEP finds the report to be conditionally acceptable provided the following comments are addressed.

#### General Comments:

THE WORLD STATE

LE should note that all of the Natural Attenuation parameters collected, as part of the sampling effort shall be summarized and a discussion provided.

This report provided sampling results of ground water monitoring well samples collected in July 2005 following the conclusion of the source reduction excavations. The results of the sampling confirmed a persistent area of ground water contamination in the vicinity of monitoring wells MW-19 and MW-19-5.

There appears to be some uncertainty with regard to the specific flow path and extent of the contamination based on the current monitoring well network, and recent quarterly reports have recommended adding one or more monitoring wells to help delineate the groundwater plume. The NJDEP/USEPA recommend, however that source area impacted by soils be delineated and a treatment proposed which may help alleviate the need for establishing an Operable Unit – 2, groundwater at the site.

Also, a review of the sampling results indicate high levels of toluene in MW-19-5. According to the NJDEP's Vapor Intrusion Guidance Document (October 2005), a vapor intrusion evaluation must be completed if a receptor is within 30 feet of a BTEX plume or 100 feet if product is suspected. Three residences on Ross Street are within the 100-foot criterion. The high levels of toluene suggest that residual product may be present. Therefore, a vapor intrusion evaluation must be performed. The NJDEP recommends that soil gas samples be taken on the LE side of Ross Street, as well as, on the opposite side of Ross Street (i.e. right of way). LE should be aware that due to the close proximity of residential homes and the persistence of this contaminated source, the NJDEP/USEPA cannot concur with continued monitoring. LE shall propose a work plan within thirty (30) days upon receipt of this correspondence which addresses these issues.

#### **Specific Comments:**

Section 2.4, Delineation of Groundwater Contamination, page 2-3: The groundwater sample results from MW-19 and MW-19-5 reported a significant increase in contaminants over previous sampling rounds. Whether this is due to the revised sampling protocol or an actual spike at the source area is not discussed, however the levels suggest that LE consider a more aggressive approach (i.e. active remediation) for the source at the MW-19 area.

Section 3.2, Rockaway River, page 3.2: The report states that surface water sampling at the eastern drainage ditch as well as the Rockaway River and Washington Forge Pond will continue as part of the quarterly sampling. Sample location SW-R-6 shall also be included in the quarterly monitoring.

Section 4.3, Post Source Reduction Site Monitoring, page 4-1: The report states that the proposed site monitoring network will include one additional shallow monitoring well for the MW-19 area. The location of the proposed well is acceptable. The NJDEP must be provided with any details on the installation as well as a schedule for when the monitor well be installed.

Should you have any questions please contact me at (609) 633-1416.

Sincerely,

authy

Anthony Cinque, Case Manager Bureau of Case Management

C: Nicholas Clevett, RMT Stephen Cipot, USEPA Robert Alvey, USEPA George Blyskun, BGWPA John Prendergast, BEERA



# State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

LISA P. JACKSON
Acting Commissioner

ON S. CORZINE

Governor

Christopher Anderson

Director Environmental Af

FEB 2 2 2006

Christopher Anderson
Director Environmental Affairs
L.E. Carpenter and Company
33587 Walker Road
Avon Lake, OH 44012

Re: L.E. Carpenter Superfund Site
Wharton Borough, Morris County, New Jersey

Dear Mr. Anderson:

The New Jersey Department of Environmental Protection (NJDEP or Department) as well as the United States Environmental Protection Agency (USEPA) have completed a review of the Post Remedial Monitoring Plan dated October 14, 2005. This document was prepared by RMT, Inc. on behalf of L.E. Carpenter and Company (LE). The NJDEP and USEPA have the following comments which must be addressed.

General Comments (NJDEP, and USEPA); po busines; se

Please be advised that the NJDEP and USEPA are in receipt of the Quarterly Monitoring Report – 4<sup>th</sup> Quarter 2005 dated February 8, 2006, which includes an approach to sampling soil gas in the MW-19 area. This report is currently being reviewed by the NJDEP and USEPA and any comments will be forthcoming shortly.

As specified in the NJDEP's letter dated December 22, 2005 (see attached), the NJDEP and USEPA remain concerned regarding the MW-19 area, which includes the possibility for vapor intrusion across Ross Street, as well as the observed significant increase in monitored concentrations reported during 2005. This above referenced report includes sections regarding both the vapor intrusion and MW-19 area.

The USEPA has conducted a preliminary review and based on the information provided in the newly received February 8, 2006 report, the USEPA concurs with additional installation of MW-19-12 at the revised location.

It must also be noted that not all of the USEPA's concerns have been addressed in the MW-19 area. It would seem to be more efficient and cost effective to actively remediate the MW-19 area now, and thus mitigate any potential vapor intrusion concerns as well as the further spreading of contaminants. There is considerable delay involved with continuing to sample and install new monitoring points and wells, and wait for the results. The USEPA continues to strongly believe that the utilization of a relatively simple technology such as dual phase extraction (DPE), or other technology which could be quickly evaluated by LE and presented in a new proposal, would save considerable time and effort, be overall more efficient, and address possible concerns for human health and the environment that may otherwise arise in the future. It should be noted that the USTs in the MW-19 area were removed 15 years ago, yet significant impacts to groundwater are ongoing.

It should also be considered that with the completion of the 2005 source reduction remediation, there could be changes in shallow groundwater flow, which could affect the MW-19 area. The potential effect downgradient of the cement-bentonite sharry monolith was discussed in the October 2005 Post Remedial Monitoring Report, however, the overall effects are not presently known with respect to surface recharge and groundwater flow, and it may be some time before a new groundwater flow pattern stabilizes.

At this time, the USEPA recommends approval of the Post Remedial Monitoring Plan, with the incorporation of the enhanced monitoring proposal as outlined in the February 2006 Quarterly Monitoring Report. However, the USEPA additionally requests that a revised submittal be presented as a final document which incorporates the updated new

information from the February 2006 Quarterly Monitoring Report. Moreover, the USEPA strongly recommends that serious consideration for the active remediation of the MW-19 area not be put off much longer.

As referenced above, the NJDEP as well as the USEPA are currently conducting a detailed review of the February 8, 2006 report and any comments will be forthcoming shortly.

### Specific Comments (NJDEP):

Section 2.3.2 Surface Water Monitoring Point Location and Design, page 2-3: The plan proposes the collection of water samples at four Rockaway River sample points. Since two of the original river sample locations (SW-R-3 and SW-R-4, Figure 2) were eliminated, it is unclear whether the proposed locations include the recently observed discharge points (sheen) along the Rockaway River. Surface water sampling at the discharge points shall be added to the post remedial quarterly monitoring and sampled quarterly thereafter.

Monitoring Well Installation: LE proposes to install 13 new monitoring wells to replace the wells which were sealed and abandoned during the excavation activities. The NJDEP concurs with this proposal but requires that LE first install three wells to determine representative ground water flow direction in the formerly contaminated and free product areas of the site. This will ensure that the new wells are installed in the proper locations to monitor these areas. Approximately 10 wells were left in-place but are installed in a line along the river or on the western portion of the site. Ground water flow direction in the areas of interest cannot be determined using just these wells.

Once the three wells are installed and ground water flow direction is determined, LE shall submit a map with the proposed locations of the remaining wells for the NJDEP's review. Any proposal must monitor the former source area(s) and downgradient areas.

Natural Ground Water Remediation Proposal: The report appears to be proposing natural ground water remediation for the site. Accordingly, LE must submit a proposal for this remedy which complies with N.J.A.C. 7:26E-6.3(d)(e) and 7:26E-6.4(c). This does not include Area 19 as that area may require additional delineation and/or remediation.

Sampling Methods: LE is proposing low-flow sampling for the monitoring wells. This is conditionally acceptable, as LE must profile sample each well to identify the most contaminated or contributing zone. Subsequent sampling will target this zone.

Field Sampling Filtration Methods, page 3-13: LE is proposing to filter ground water samples for metal analysis. The NJDEP cannot concur with this proposal, as no ground water sample shall be field filtered during collection, per the NJDEP Field Sampling Procedures Manual – August 2005, section 6.9.10.

Should you have any questions please contact me at (609) 633-1416.

Sincerely.

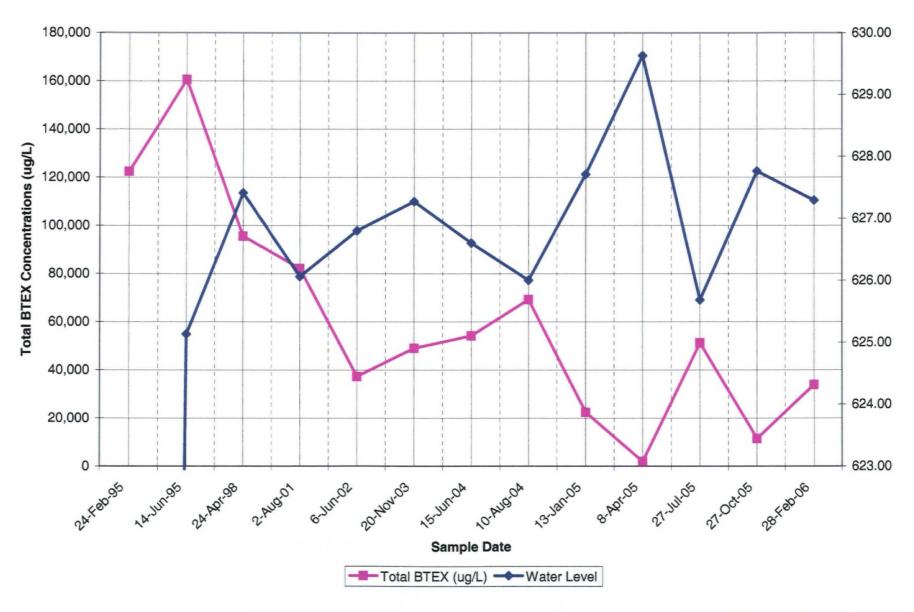
Anthony Cinque, Case Manager Bureau of Case Management

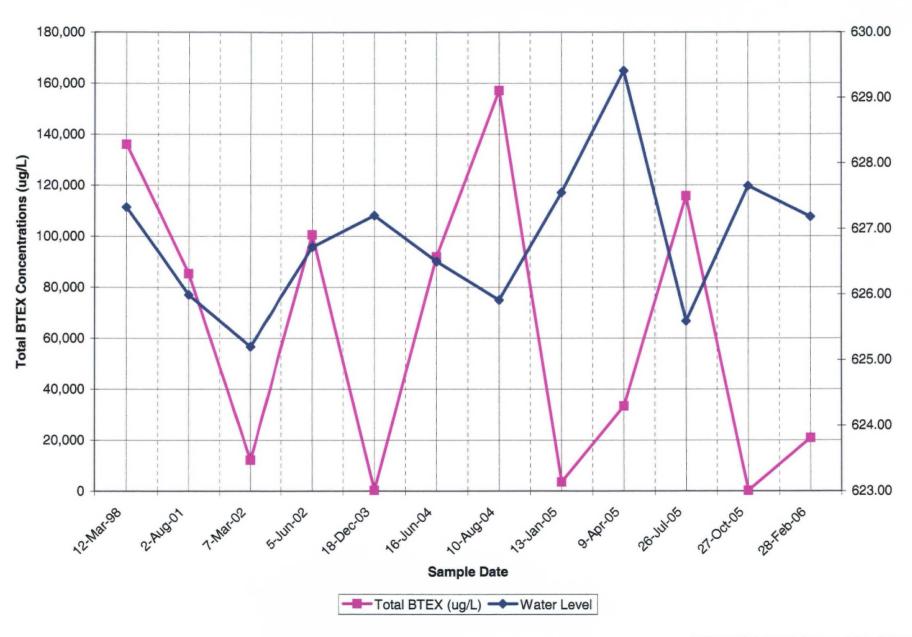
C: Nicholas Clevett, RMT Stephen Cipot, USEPA Robert Alvey, USEPA George Blyskun, BGWPA John Prendergast, BEERA

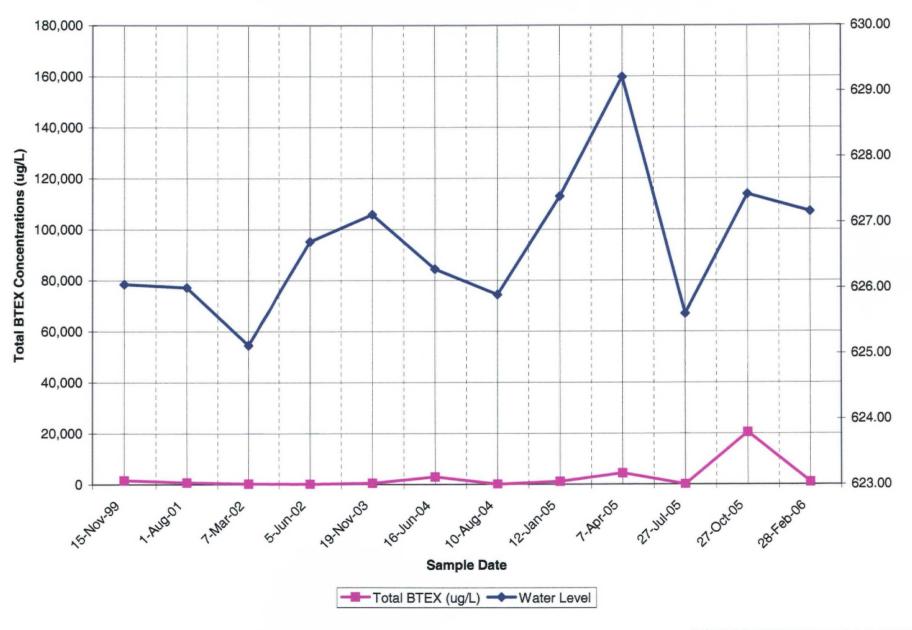
MW-19	Benzene	Ethylbenzene	Toluene	Total Xylenes	Total BTEX (ug/L)	Water Level	DO
24-Feb-95	660	1,700	110,000	10,000	122,360		
14-Jun-95	150	3,400	140,000	17,000	160,550	625.13	
24-Apr-98	1,000	2,850	76,700	14,900	95,450	627.41	
2-Aug-01	95	3,000	62,000	17,000	82,095	626.06	
6-Jun-02	200	1,000	30,000	6,000	37,200	626.80	
20-Nov-03	.20	1,500	40,000	7,400	48,920	627.27	• •
15-Jun-04	100	1,400	46,000	6,600	54,100	626.60	10.97
10-Aug-04	20	2,100	56,000	11,000	69,120	626.00	0.1
13-Jan-05	10	750	18,000	3,600	22,360	627.71	0.2
8-Apr-05	1	97	1,300	530	1,928	629.63	1
27-Jul-05	40.0	1,100	44,000	6,000	51,140	625.68	1
27-Oct-05	20.0	200	10,000	1,200	11,420	627.76	5.34
28-Feb-06	50.0	880	28,000	4,900	33,830	627.29	3.53

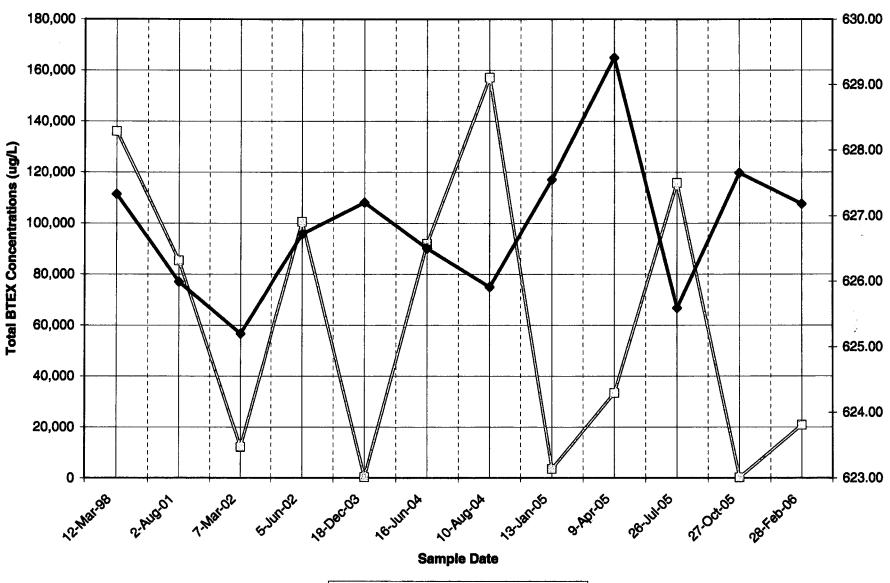
MW-19-5	Benzene	Ethylbenzene	Toluene	<b>Total Xylenes</b>	Total BTEX (ug/L)	Water Level	DO
12-Mar-98	1,000	1,920	123,000	10,100	136,020	627.33	
2-Aug-01	190	870	79,000	5,200	85,260	625.99	
7-Mar-02	140	300	10,000	1,700	12,140	625.20	
5-Jun-02	1,100	1,100	92,000	6,300	100,500	626.72	
18-Dec-03	0.2	3.7	240.0	24.0	268	627.20	
16-Jun-04	100.0	1,400	83,000	7,400	91,900	626.50	10.16
10-Aug-04	200.0	2,800	140,000	14,000	157,000	625.91	1
13-Jan-05	2.0	64.0	3,100.0	340.0	3,506	627.55	1
9-Apr-05	40.0	1,000.0	27,000.0	5,300.0	33,340	629.41	1
26-Jul-05	100.0	2,600.0	100,000.0	13,000.0	115,700	625.59	0.8
27-Oct-05	0.2	6.8	140.0	37.0	184	627.65	1.84
28-Feb-06	20.0	290.0	19,000.0	1,500.0	20,810	627.18	3.35

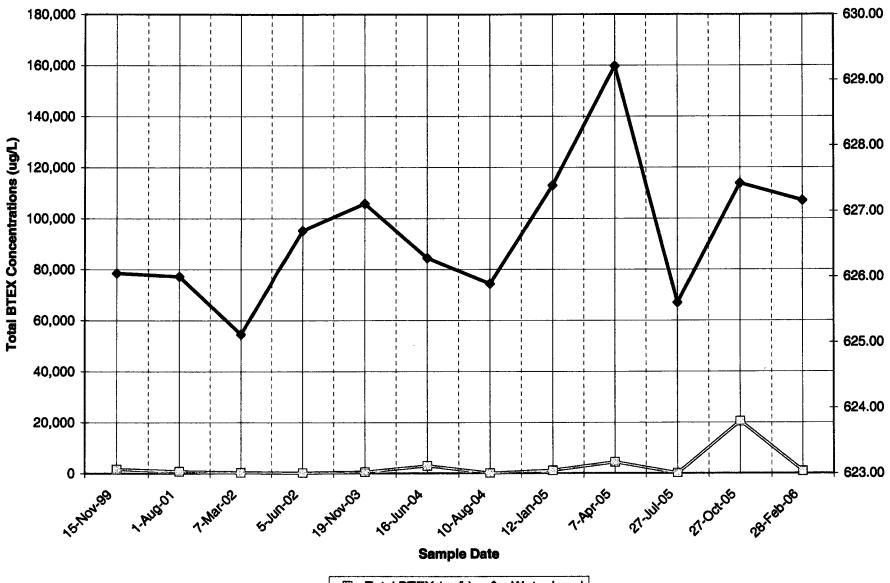
MW-19-7	Benzene	Ethylbenzene	Toluene	Total Xylenes	Total BTEX (ug/L)	Water Level	DO
15-Nov-99	16	100	51	1,400	1,567	626.05	
1-Aug-01	6.7	6.6	13	680	706	626.00	
7-Mar-02	3	1,3	1.3	250	256	625.12	
5-Jun-02	0.48	1.6	27	27	56	626.70	
19-Nov-03	4.7	0.4	0.3	460	465	627.11	
16-Jun-04	2.8	130.0	2,100.0	630	2,863	626.28	5.89
10-Aug-04	2.0	1.6	1.3	20	25	625.89	1
12-Jan-05	6.1	90.0	240.0	760	1,096	627.39	0.6
7-Apr-05	9.5	210.0	2,700.0	1,400	4,320	629.21	0.05
27-Jul-05	2.2	0.2	0.2	2	4	625.60	0.8
27-Oct-05	62.0	710.0	16,000.0	3,600	20,372	627.42	1.58
28-Feb-06	7.5	4.9	0.3	870	883	627.16	1.86











# Appendix D 1st Quarter 2006 Monitoring Well Sampling Data



PROJECT NAME:	L. E. Carpenter
PROJECT NUMBER:	6527.18, 6527.21
• • • • • • • • • • • • • • • • • • •	
PROJECT MANAGER:	N. Clevett
SITE LOCATION: -	Wharton, NJ
OHE LOOKHOR.	
•	
DATES OF FIELDWORK:	2/27/2006 TO 3/2/2006
· .	Collect Static Water Levels, Ground and Surface Water Sample
	Collect Static Water Levels, Ground and Surface Water Sample
PURPOSE OF FIELDWORK:	Collect Static Water Levels, Ground and Surface Water Sample
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PURPOSE OF FIELDWORK:	Collect Static Water Levels, Ground and Surface Water Sample  E. Vincke
PURPOSE OF FIELDWORK:	
PURPOSE OF FIELDWORK:	

3/3/00 SIGNED DATE

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# **GENERAL NOTES**

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PROJECT NAME:	L. E. Carpenter	DATE: 2/2	27/06	TIME ARRIVE	D: 0735
PROJECT NUMBER:	6527.1 <b>§</b>	AUTHOR:	E. Vincke, J. Overv	TIME LEFT:	1500
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### **GENERAL NOTES**

PROJECT NAME:	L. E. Carpenter	DATE: 2	128/06	TIME ARRIVED: 0715
PROJECT NUMBER:	6527.18	AUTHOR:	E. Vincke	TIME LEFT: 1830

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### **EQUIPMENT SUMMARY**

PROJECT NAME: L. E. Carpenter	SAMPLER NAME: E. Vincke
PROJECT NO.: 6527.18	
WATER LEVEL MEASUREMENTS COLLECTED WITH	
QED MP30 NAME AND MODEL OF INSTRUMENT	SERIAL NUMBER (IF APPLICABLE)
PRODUCT LEVEL MEASUREMENTS COLLECTED WIT	
NAME AND MODEL OF INSTRUMENT	SERIAL NUMBER (IF APPLICABLE)
DEPTH TO BOTTOM OF WELL MEASUREMENTS COL	LECTED WITH:
NAME AND MODEL OF INSTRUMENT	SERIAL NUMBER (IF APPLICABLE)
PURGING METHOD	
NAME AND MODEL OF PUMP OR TYPE OF BAILER	SERIAL NUMBER (IF APPLICABLE)
ESAMPLING METHOD	
NAME AND MODEL OF PUMP OR TYPE OF BAILER	SERIAL NUMBER (IF APPLICABLE)
NAME AND MODEL OF FILTERATION DEVICE	FILTER TYPE AND SIZE
Teffon lined PE	LOW-FLOW SAMPLING EVENT
PURGE WATER DISPOSAL METHOD	
GROUND DRUM POTW	POLYTANK   OTHER
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SIGNED 3/3/06 DATE	CHECKED BY DATE



# **CALIBRATION LOG**

	· · · · · · · · · · · · · · · · · · ·	MODEL: QED MP20	SAMPLER: EV
PROJECT NO.:	6527.18	SERIAL #: GRR	DATE: 2/28/06

### PH CALIBRATION CHECK

PH7 (LOT NUMBER): 2509204	PH/4) 10 (LOT NUMBER): 2 5 0 7 0 13	TIME
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### SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CALIBRATION READING (LOT NUMBER): 2507196	TEMPERATURE ("GELSIUS)	CORRECTED CONDUCTIVITY (umhos/on)	TIME
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1292 / 1413	34.61	1413	1440
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/			

### D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	TIME
6.66	ഗിയ
5,72	1439

### **TURBIDITY CALIBRATION CHECK**

CALIBRAT (LOT#): <b>MA</b>	ON READ	PPR makes to a 1250 miles	TIME
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SIGNED DATE

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3/7/06



### WATER LEVEL DATA®

PROJECT NAME: L. E. Carpenter	D,	ATE: 2/	27/06	
PROJECT NUMBER: 6527.18	Al	UTHOR:	E. Vincke	

PROJECT NUMBER:	6527,75		1	AUTH	OR:	E. Vincke	
WELL-LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEE.I)	PRO	HTO: DUCT ET)	WATER ELEVATION
MW-19	1395		7.61	(C.58)	والملاحة	ø	
MW-19-1	1319		8.26		OLK .		,
MW-19-2	1303		8.96				
MW-19-3	1309		9.33				
MW-19-4	13.07		7,99	16.02	10-DD	9	
MW-19-5	1329		8.38		المنتحال		
MW-19-6	1347		8.57	(19:61):	g. <b>:</b> 0		
MW-19-7	1349		7,84	20.21			
*MW-19-8	1344		Σ.aα::				
MW-19-9D	1302		8.09				<b>,</b>
MW-19-10	1342		7.0(	4	35 - 36		
MW-19-11	1337	*	(2.48				
MW-155	1028	in the second second	9.64				
MW-15I	1027	EWSKY CHARLES BY COMMON TO SEE	9,53			: .	A
FGEI-2I	13.58		9,82				
GEI-2S	1327		9.92				
GEHSI	1050		11:96				
500-D-1 56R3			NM -wale	r was belo	ow rec	edable	#' <u>S</u>
Sw-0-5 SGRO			2.52				
5w-D-3 56R1	1048		47	Š <sup>ilo</sup> ritė stočis M.C., inkinkankankan		es en la companya de la	
SW-KH SWI			1.43				
<b>SW-R-3</b> 56 Da			4.16			S0003068	
STREET SED	5 1133		1764				
SW-R-4			417 a				

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

2/27/06 SIGNED DATE

CHECKED CHECKED

3 7 06 DATE

FW- R-5



PROJECT	NAME:	L. E. (	Carpenter				r PR	EPĀF	(ED			- CHI	ECKE	D <sup>®</sup>	
PROJECT	NUMBE	R: 6527.	18		В	Y:	EV	DA	ATE: 2	27 BY	<u>':</u>	70	DAT	E 3/1	106
SAMPLE	idi 🦴	3- R=1			WELL DIA	MET	TER:	2" [	4" 🗌	6" \ \( \)	HER	1	Αc		
WELL MATERIAL: PVC SS IRON NOTHER NA									==-						
SAMPLE '	SAMPLE TYPE: GW WW SW DI LEACHATE OTHER														
PURGING TIME: DATE: 2/27/06 SAMPLE TIME: 09.05 DATE: 2/27/06															
PURGE		PUMP			_		PH:	<u> </u>	(s		DUCT	IVITY:	MM	umho	
METHOD:		BAILER	- <del> </del>	$\angle$	· · · · · · · · · · · · · · · · · · ·		ORP:	NA		nv DO:	NY	<u>√l</u> mg/L			
DEPTH TO		<del>(),</del>	_T/_PVC				TURBI		-N4		<b>.</b>		_		
DEPTH TO		:- <del>///</del>	PVC	<u> </u>	041.0		∐ NO		X SL			DERATE		VERY	<u>'</u>
WELL VOL			LITERS		GALLON:		TEMPE	·	RE:	700 0M	7	OTHER:			==
COLOR:	JEMOVED	<del>/</del>	_L LI EA		:		COLO			<u>XXQ</u> ☐ YES	ODO		<u> </u>	کروٹ	-
TURBIDIT	Y:/			ODOR	•	<del></del> .			45 um) LOR:		7	TRATE O	DOP:		
NOME		IGHT	MODERAT	E	☐ VERY	,	<del> </del>		. ☐ MS			DUP-	JOI 1		
DEPOSAL	METHOD	: GROU	ND DF	IUM 🗌	OTHER		СОММ					<del></del>		<u></u> ,	
TIME	Flurial=	P#	CONDUCTI	vitv	ORP		DO.	יםו וד	YTIĞIE	TEMPERA	njbe	WATER		JMULATO	
	RATE (ML/MIN)	(SU)	(umhos/c	i i i i	(mV)		mg/L)			(°C)		LEVEL (FEET)	40 M	IGE VOLL GAL OR L	
			,	XCXX-1	7	magney					e organistical			INITIAL	
	,					1.									$\neg$
												<del></del>	-	A.1	$\neg$
												· · · · · · · · · · · · · · · · · · ·			
							VA		<del></del> ;	<del></del>		******	1		$\neg$
							1	-					-		
						1			NAME .				- <del> </del>		$\dashv$
								<del></del>	-				+		
												<u> </u>	-		$\overline{\cdot}$
				<u> </u>						· · · · · · · · · · · · · · · · · · ·			-		
NOTE	: STABILIZ	ZATION TE	STIS COM	PLETE V	WHEN 3 S	UCC	ESSIVE	READ	INGS A	RE WITHIN	I THE	FOLLO	WING I	IMITS:	
pH: +/- (		COND.: +/-		RP: +/-			+/- 10		RB: +/-		=</td <td></td> <td></td> <td>°.: +/- 0.5</td> <td>5°C</td>			°.: +/- 0.5	5°C
ВОПТ	LES:	PRESERV	ATIVE COD	ES				•					<del>:</del>		
FILL	ED :	A - NO	NE	B - HN	03	c-	H2SO4		D - Nac	ЭН	E-	HCL	F	- <u>Na2S2</u>	203
NUMBER	SIZE	TYPE	PRESERV	ATIVE	FILTER	ΞĎ	NUMBE	R :	SIZE	TYPE	PRE	SERVA	ΓΙVE	FILTERE	ΞD
3,8	40 mL	VOA	E		□ Y ☑	N	2		11	AMBER		-F-		] Y [	N)
-1	40 mL	VOA	A		□ <b>∀</b> □	-4	2		1-	PLASTIC		A		Y	N
_1_	40 mL	VOA	c			N.	7			PI ASTIC		E		<del>     </del>	N
2	1	GLASS				-14								Y 🗸	N
SHIPPING N	METHOD:	Lab P	ckup	DATE S	SHIPPED:		2/28	106		AIRBIL	L NUI	MBER:	NA		
COC NUMB	ER:	01169	81	SIGNA	TURE:	ے	- 1	The	-	DATE	SIGNE		2/2	7/06	$\exists$



PROJECT NAME: L. E. Carpenter	PREPARED CHECKED
PROJECT NUMBER: 6527.18 BY:	EV DATE: 2/27/04 BY: 40 DATE: 3/7/01
SAMPLEID: 50-8-2 WELL DIAM	TER: [ 2" [ 4" [ 6" [ OTHER N ]
WELL MATERIAL: PVC SS IRON OTH	ir NA
SAMPLE TYPE: ☐ GW ☐ WW 💢 SW ☐ DI	LEACHATE OTHER
PURGING TIME: DATE:	SAMPLE TIME: 0915 DATE: 2/27/06
PURGE PUMP	PH: NM SU CONDUCTIVITY: NM umhos/cr
METHOD: BAILER	ORP: NM mv DO: NM mg/L
DEPTH TO WATER:T/ PVC	TURBIDITY: NM NTU NONE SIGHT MODERATE VERY
WELL VOLUME: LITERS GALLONS	TEMPERATURE: NM °C OTHER:
VOLUME REMOVED: LITERS GALLONS	COLOR: Classy ODOR: Nove
COLOR: ODOR:	FILTRATE (0.45 um) TYES X NO
TURBIDITY:	FILTRATE COLOR: FILTRATE ODOR:
NOME SLIGHT MODERATE VERY	QC SAMPLE: MS/MSD DUP-
DISPOSAL METHOD: GROUND DRUM OTHER	COMMENTS:
TIME PURGE PH CONDUCTIVITY ORP (ML/MIN) (SU) (emhos/cm) (mV)	D.O. TURBIDITY TEMPERATURE WATER CUMULATIVE PURGE VOLUME (MDL.) (NTU) (*C) (FEET) (GALORIL)
	INITIAL
	18
	VI I
	ESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: +/- 10 TURB: +/- 10 OR = 5 TEMP.: +/- 0.5°C</td
BOTTLES PRESERVATIVE CODES	+/- 10 TURB: +/- 10 OR = 5 TEMP.: +/- 0.5°C</td
	H2SO4 D - NaOH E - HCL F - Na2S2O3
NUMBER SIZE TYPE PRESERVATIVE FILTERED	NUMBER SIZE TYPE PRESERVATIVE FILTERED
3 % 40 mL VOA E Y N	2 1 L AMBER F Y N
1 10 mL VOA A V N	2 1L PLASTIO A TY N
1 40 mL VOA 6 TY ZN	PLASTIC F Y N
2 1L GLASS C V V N	□Y ☑N
SHIPPING METHOD: Lab Pictor DATE SHIPPED:	2/28/06 AIRBILL NUMBER: NA
COC NUMBER: 01/6981 SIGNATURE: 2	2- Which DATE SIGNED: 2/27/06



PROJECT	NAME:	L. E. (	Carpenter		PRE	PARED:		el Chi	CKED :
PROJECT	NUMBE	R: 6527.	18	BY:	EV	DATE:2	27/06 BY	٠ مر	DATE: 3/7/06
SAMPLE I	D: 🦠	) <u>-</u> 2	14	WELL DIAM	ETER: 2	"	] 6" <b>\</b> OT	THER N	4
WELL MA		☐ PVC		IRON X OTH	ER	NA			
SAMPLE T	YPE:	GW	ww ⊠	SW DI		EACHATE	ОТ	HER .	
PURC	ing	TIME:	DA	TE:	SA	MPLE	TIME:	940 1	DATE: 2/27/00
PURGE		PUMP			PH: _	NA :	1	DUCTIVITY:	NA umhos/cm
METHOD:		BAILER			ORP:	AN .	mv DO:	NA mg/L	
DEPTH TO	WATER:		T/ Pye		TURBIDI	тү: <u>И</u> Р	NTU-	. ,	
DEPTH TO	воттом	1/8	T/ PVC		☐ NONE	E 🛛 SL	IGHT [	MODERATE	☐ VERY
WELL VOLU	JME:	10,	LITERS	GALLONS	TEMPER	ATURE:	NA	°C OTHER:	
VOLUME R	EMOVED		LITERS	GALLONS	COLOR:	<u> </u>	rg4	ODOR:	None
COLOR:		· .	OD0	OR:	FILTRATI	E (0.45 um)	☐ YES	Ø NO	
TURBIDITY	<u>/</u>	<del></del>			FILTRATE	COLOR:	···	FILTRATE OF	OOR:
NOME	SLI	івнт 🗌	MODERATE	☐ VERY	QC SAM	PLE: MS	S/MSD	DUP-	·
DISPOSAL	METHOD	GROU	ND DRUM	OTHER	СОММЕ	NTS:			
TIME (	PURGE	PН	CONDUCTIVITY	ORP .	D.O.	TURBIDITY	TEMPERA	TURE WATER	
	HATE (ML/MIN)	(SU):	(umhos/cm)	(mV)	(mg/L)	(NTU)	(°C)	LEVEL	
					10. National — 200-17 (School: 1919)				INITIAL
	: •				.				
		<u> </u>		-N					
				M					<del></del>
				<del>//</del>	<u> </u>			.   .	
					-				
	· .								
						·			
NOTE:	STABILIZ	ATION TE	ST IS COMPLET	E WHEN 3 SUC	CESSIVE R	EADINGS A	RE WITHIN	THE FOLLOV	VING LIMITS:
pH: +/- 0	.1 (	COND.: +/-	10 ORP: 4	H- <b>10</b> D.O	.: +/- 10	TURB: +/-	10 OR	= 5</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C
BOTTI	ES	PRESERV	ATIVE CODES				<del> </del>		
FALLE	ED	A - NO	NE B-	INO3 C	H2SO4	D - Na	ОН	E - HCL	F - Na2S2O3
NUMBER	SIZE	TYPE	PRESERVATIV	E FILTERED	NUMBER	SIZE	TYPE	PRESERVAT	IVE FILTERED
3 /	40 mL	VOA	E	N TY	2	1 L	AMBER	F	□Y ☑N
	40 mL	VOA	A	OY V	2_	1_	PLASTIC		T JN
1	40 mL	VOA	С	DY DN	1 ,1		PLASTIC	E	— □ Y ■ N
2	-1L	GLASS	<del></del>	DY DN					
SHIPPING M	ETHOD:	Leh F	ickup DAT	E SHIPPED:	2/25	10	AIDDII	I NUMBER:	
· · · · · · · · · · · · · · · · · · ·				<del></del>	ajak	106	/	L NUMBER:	NA
COC NUMBE	:H:	01169	TOI SIGN	NATURE:	<u></u>	buch	DATES	SIGNED:	2/27/06



PROJECT NAME: L. E. Carpenter	PREPARED OHECKED
PROJECT NUMBER: 6527.18	Y: EV DATE: 2/27/06 BY: 40 DATE: 3/106
SAMPLE ID: SW-R-U	
WELL MATERIAL: PVC SS IRON O	
SAMPLE TYPE: GW WW SEW D	I LEACHATE OTHER
PURGING TIME: DATE:	SAMPLE TIME: 0955 DATE: 2/27/06
PURGE PUMP	PH: NM su CONDUCTIVITY: NM umhos/cm
METHOD: BAILER	ORP: NM my DO: NM mg/L
DEPTH TO WATER: T/ PVC	TURBIDITY: NM NTU
DEPTH TO BOTTOM: T/ PVC	□ NONE 🔀 SLIGHT □ MODERATE □ VERY
WELL VOLUME: LITERS GALLONS	TEMPERATURE: NM °C OTHER:
VOLUME REMOVED: LITERS GALLONS	color: Cloudy odor: Norl
COLOR: ODOR:	FILTRATE (0.45 um) YES X NO
TURBIDITY:	FILTRATE COLOR: FILTRATE ODOR:
NOME SLIGHT MODERATE VERY	QC SAMPLE: MS/MSD DUP-
MSPOSAL METHOD GROUND DRUM OTHER	COMMENTS:
TIME PURGE PH CONDUCTIVITY ORP	DID: TURBIDITY TEMPERATURE WATER COMULATION
RATE CONDSCIPTION ON P	(mg/L) (NTU) (*C) (FET) (GALOR L)
	INITIAL
ALC I	
NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SU	UCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
	.O.: +/- 10 TURB: +/- 10 OR = 5 TEMP.: +/- 0.5°C</td
BOTTLES PRESERVATIVE CODES	
A - NONE B - HNO3	C - H2SO4 D - NaOH E - HCL F - Na2S2O3
NUMBER SIZE TYPE PRESERVATIVE FILTERE	D NUMBER SIZE TYPE PRESERVATIVE FILTERED
3 × 40 mL VOA E Y	N 2 1L AMBER F Y N
*1 40 mL VOA A D Y	
_1 _ 40 ml _ VOA _ C Y _ Z	
2 11 GLASS C X	
SHIPPING METHOD: Lah Pic VIIO DATE SHIPPED:	
AD ICUP	2/28/00 AIRBILL NUMBER: NA
COC NUMBER: OIL 6981 SIGNATURE:	DATE SIGNED: 2/27/06



PROJECT NAME: L. E.	Carpenter		PRI	EPARED.		CHE	CKED
PROJECT NUMBER: 6527.	.18	BY:	EV	DATE: 2/	27/16 BY	(: 70	DATE: 3/1/04
SAMPLEID: < W_ ()	<b>(</b> 0	WELL DIAME	TER:	2"	] 6" <b>[ZL</b> O]	THER N	A
WELL MATERIAL: PVC	A CONTRACTOR OF THE PARTY OF TH	RON XOTHE	R .	AU	· · · · · · · · ·	<u></u>	
SAMPLE TYPE: GW	□ww \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	SW DI		LEACHATE	ГО	THER	
PURGING TIME:	DAT	E:	/ is	AMPLE :	TIME: \	010	DATE: 2/27/06
PURGE PUMP			PH:	NM		DUCTIVITY:	NM umhos/cm
METHOD: BAILER			ORP:	NM	my DO:	NM mg/L	
DEPTH TO WATER:	_T/ PVC		TURBI		UTN NTU		
DEPTH ТО ВОТТОМ: VY3	_ T/ PVC		NON _	NE 💢 SI		MODERATE	☐ VERY
WELL VOLUME:	LITERS [	GALLONS	TEMPE	RATURE:	NM	°C OTHER:	
VOLUME REMOVED	LITERS [	GALLONS	COLOF	a: <u>Uo</u>	an a	ODOR:	None
COLOR:	ODC	)R:	FILTRA	TE (0.45 um)	YES	NO NO	
TURBIDITY:			<del> </del>	TE COLOR:		FILTRATE OF	OOR:
NONE SLIGHT	MODERATE	VERY	QC SAI		S/MSD	DUP-	
PISPOSAL METHOD: GROU	IND DRUM	OTHER	СОММ	ENTS:	·		
TIME PURGE PH	CONDUCTIVITY	ORP	D:0.	TURBIDITY	TEMPERA	TURE WATER	
(ML/MIN) (SU)	(umhos/cm)	(mV)	(mg/L)	- (NTU)	(°C)	CONTRACT AND A	PURGEVOLUME (GAL OR L)
							INITIAL
,							
		$\mathcal{A}_{I}$				-	
		N.					
				· · · · · · · · · · · · · · · · · · ·	<u> </u>		
				<del></del>			
				-	<u> </u>		
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							<u> </u>
					. ,	·   ·	-
NOTE: STABILIZATION TE	ST IS COMPLETI	E WHEN 3 SUCC	ESSIVE	READINGS A	RE WITHIN	THE FOLLO	VING LIMITS:
pH: +/- 0.1 COND.; +/-	10 ORP: +/	<b>/- 10</b> D.O.:	+/- 10	TURB: +/-	10 OR	= 5</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C
	ATIVE CODES					···········	
A- NO	NE B-H	NO3 C -	H2SO4	D - Na	OH	E - HCL	F - <u>Na2S2O3</u>
NUMBER SIZE TYPE	PRESERVATIVE	FILTERED	NUMBE	R SIZE	TYPE	PRESERVAT	IVE FILTERED
3,8 40 mL VOA	E	□ Y ☑ N	<u></u>	-1-6	AMBER		OY DN
1 40 mL VOA	A	□ Y □ N	_2	1-1-	PLASTIC	A	Y V N
1 40 mL VOA	<u> </u>	DY VN	_1_	4	PLASTIC	F	□Y ☑N
1 GLASS	C						□ Y ☑ N
SHIPPING METHOD: Lah	Pickup DATE	SHIPPED:	2/5	8/06	AIRRII	L NUMBER:	NA
COC NUMBER: OII		ATURE:	212	1/:/	<del></del> -	SIGNED:	2/27/06



PROJECT NAME: L. E. Carpenter	PRE	PARED	TELL CHE	OKED
PROJECT NUMBER: 6527.18	Y: EV	DATE: 2/27/0	BY: 20	DATE: 3/306
SAMPLE ID: 4M_R_5 WELL DIA	AMETER: 2	2"	OTHER N	1
	THER	NA		
SAMPLE TYPE: GW WW XSW D	)I 🗍 LI	EACHATE [	OTHER	1
PURGING TIME: DATE:	SA	MPLE TIME	: 1040 D	ATE: 2/27/06
PURGE PUMP	PH: _	NM su c		umhos/cm
METHOD: BAILER	ORP: _	NM mv Do	D: NM mg/L	
DEPTH TO WATER: T/ PVC	TURBIDI			_
DEPTH TO BOTTOM:T/ PVC	□ NON		MODERATE	VERY
WELL VOLUME: LITERS GALLONS			°C OTHER:	Froze
VOLUME REMOVED: LITERS GALLONS	0.0007.		ODOR:	Nove
COLOR: ODOR:		E (0.45 um) 🔲 🗡	·	
TURBIDITY:	FILTRATE		FILTRATE ODG	DR:
			DUP-	b
	COMME	NIS:		
TIME PURGE PH CONDUCTIVITY ORP	D.O.	TURBIDITY TEMPI	HATURE WATER	CUMULATIVE  PURCE VOLUME
(ml/Min) (SU) (umhes/cm) (ml/)	(mg/L)	(NTU)	(6) <u>J</u> EEN	(GAL OR L)
				INITIAL
AL				
(0)				
	1			
	"			
NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 S		EADINGS ARE WIT	THIN THE FOLLOW	ING LIMITS:
pH; +/- 0.1 COND.; +/- 10 ORP: +/- 10 D	0.0.: +/- 10	TURB: +/- 10	OR = 5</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C
BOTTLES PRESERVATIVE CODES				
FILLED A - NONE B - HNO3	C - H2SO4	D - NaOH	E- HCL	F - Na2S2O3
NUMBER SIZE TYPE PRESERVATIVE FILTERS	ED NUMBER	SIZE TYP	E PRESERVATIV	/E FILTERED
3,8 40 mL VOA E □ Y ☑	] N 2	1 L AMB	R F	N V T
1 40 mL VOA A V	N 2	1L PLAS	FIG A	TY VN
1 40 mL VOA 6 1 V	LN -4	PLAST	nc F	□ Y Z N
2 1L GLASS C X	N			□Y ☑N
SHIPPING METHOD: Lab Picke DATE SHIPPED:	2/25	8/06 AIF	IBILL NUMBER:	NA
COC NUMBER: 0116981 SIGNATURE:	2100	7/ /		7 7
0116101 GIGNATORE.	-	MILL DA	TE SIGNED:	427/06

# RMT.

PROJECT NAME: L. E. Carpenter		PREP	ARED		: CHE	OKED ****
PROJECT NUMBER: 6527.18	BY:	EV	DATE: 2/2	7/06 BY:	JO	DATE: 3 7 06
SAMPLEID: 5W-D-3 WELL	DIAMETE	ER: 2*		6 Моті	HER A	υA
1280-4880-0000000000000000000000000000000	OTHER	₹ .	AU			
SAMPLE TYPE: GW WW SW C	] DI	LE	ACHATE	□оті	HER	-
PURGING TIME: DATE:		SAN	ARIES E	TIME: 11	de l	DATE: 2/27/06
PURGE PUMP		PH:	NM si	U COND	UCTIVITY:	NM umhos/cm
METHOD: BAILER	_	ORP:	M m	v DO:	NM mg/L	
DEPTH TO WATER: T/ PVC		TURBIDIT	Y: <u>NM</u>	NTU		
DEPTH TO BOTTOM:T/ PVC		NONE	SLIC	знт 🔲	MODERATE	VERY
WELL VOLUME: LITERS GALL	ONS	TEMPERA	TURE:	M	°C OTHER:	Froze
VOLUME REMOVED: LITERS GALL	ONS	COLOR:	<u>Cla</u>	odu	ODOR:	None
COLOR: ODOR:		FILTRATE	(0.45 um)	YES	NO NO	
TURBIDITY:	• •	FILTRATE			FILTRATE O	DOR:
□ NONE □ SLIGHT □ MODERATE □ VI	ERY	QC SAME	PLE: MS/	MSD	DUP-	
DISPOSAL METHOD: GROUND DRUM OTHE	R	COMMEN	rrs:			
PURGE					WATER	E CUMULATIVE
PATE : CONDICIONES . OFF			URBIDITY :	TEMPERAT	جعرول الله	PURGEVOLUME
(mV) (std) (umhos/sm) (mV)	e)); (	mg/L)	-(NTU):	(°C)		(GAL OR L)
						INITIAL
						<u> </u>
	^					·
				,		
				<del>-</del>		
NOTE: STABILIZATION TEST IS COMPLETE WHEN	3 SUCC	ESSIVE RI	EADINGS AI	RE WITHIN	THE FOLLO	WING LIMITS:
pH: +/- 0.1 COND.; +/- 10 ORP: +/- 10	D.O.;	+/- 10	TURB: +/-	10 OR	= 5</td <td>TEMP.: +/- 0.5°C</td>	TEMP.: +/- 0.5°C
BOTTLES PRESERVATIVE CODES						
FILED A- NONE B- HNO3	C-	H2SO4	D - NaC	DH	E - HCL	F - <u>Na2S2O3</u>
NUMBER SIZE TYPE PRESERVATIVE FILT	ERED	NUMBER	SIZE	TYPE	PRESERVA	TIVE FILTERED
3,8 40 mL VOA E Y	ν	2	1 L	AMBER	F	□Y ☑N
-1 40 mL VOA A TY	ŪN [	-2		PLASTIC	A	
1 10 mL VOA C TY	N	-4		PLASTIC		T TN
	<del> </del>				<del></del>	□Y ☑N
			<del>,</del>			
SHIPPING METHOD: Lab Pickup DATE SHIPP	ED:	2/28/	106	AIRBIL	L NUMBER:	NA
COC NUMBER: 011698 SIGNATURE	(	2	Kirch	DATES	SIGNED:	2/27/06



PROJECT NAME: L. E. Carpenter	PR	EPARED (45)		CHECK	ÉD.,, S. F., S.
PROJECT NUMBER: 6527.18	BY: EV	DATE: 2/27	Do BY:	70 0	ATE: 3/7/06
SAMPLE ID: WELL	DIAMETER:	2" 4" 6"	<b>X</b> OTHER	NA .	
	OTHER	NA			
SAMPLE TYPE: GW WW SSW C	] DI 🔲	LEACHATE	OTHER	١	
PURGING TIME: DATE:	/ 5	AMPLE	IME: 1155	5 DATI	E 2/27/06
PURGE PUMP	PH:	NM su	CONDUC	<del></del>	
METHOD: BAILER	ORP:	NM mv	DO:	)M mg/L	
DEPTH TO WATER: T/ PVC	TURB	IDITY: NM	NTU		
DEPTH TO BOTTOM: T/ PVC	□ NO	NE X SLIGH	т 🔲 мо	DDERATE	☐ VERY
WELL VOLUME: CITERS GALLO	ONS TEMP	RATURE: N	M ∘c	OTHER: {	Fore
VOLUME REMOVED: LITERS GALLO	ONS COLO	r: <u>Cox</u>	u_ 0	OOR:	Done
COLOR: ODOR:	<del></del>	ATE (0.45 um)		NO	
TURBIDITY:		TE COLOR:	FI	LTRATE ODOR:	
		MPLE: MS/M		DUP- O	
DISPOSAL METHOD: GROUND DRUM OTHE	R COM	MENTS:			
PURGE				WATER	COMULATIVE!
FIME PURGE PH CONDUCTIVITY ORP	D.O.		MPERATUR	LEVEL	PURGE VOIZUME
(ML/MIN) (SU) (umhos/cm) (mV)	(mg/L)	E E E E E E E E E E E E E E E E E E E	(°C)	(FÉET)	(CALOR L)
					INITIAL
		<u> </u>			
				ļ	
NP	۱ /				
					-
	<del></del>				
				+	
NOTE: STABILIZATION TEST IS COMPLETE WHEN			**	•	
pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10	D.O.: +/- 10	TURB: +/- 10	OR =</td <td>. 5 TE</td> <td>MP∴ +/- 0.5°C</td>	. 5 TE	MP∴ +/- 0.5°C
BOTTLES PRESERVATIVE CODES					
A - NONE B - HNO3	C - H2SO4	1		HCL	F - Na2S2O3
	ÉRED NUMB	ER SIZE	TYPE PI	RESERVATIVE	FILTERED
65 40 mL VOA E Y	☑ N 4 2	1 L A	MBER	F	□Y ☑N
1 40 mL VOA A D Y	<u> </u>		LASTIC	<del>-                                    </del>	□ Y □ N
1 40 mL VOA 0 🔲 Y	₩ 4	PI	ASTIC		□ Y □ N
2 11 GLASS C Y	<b>₽</b> ₩				□Y ☑N
SHIPPING METHOD: Lab Pickup DATE SHIPPI	ED: <u>2/2</u> 7	8/06	AIRBILL N	UMBER: //	
COC NUMBER: 016981 SIGNATURE:	<u> </u>	1/2	DATE SIG		127/06
		enw.			~// V P



PROJEC	T NAME:	L. E. (	Carpenter		i ipali	PARED -		OHE	CKED
PROJEC	T NUMBE	R: 6527.	18	BY:	EV	DATE:	27/06 BY	: <b>3</b> 0	DATE: 3/7/06
SAMPLE	id: Sv	N=D	_{	WELL DIAM	ETER: 2	4" [	6" 📈 ОТ	HER N	4
WELL M	ATERIAL:	PVC	ss 🗀	IRON AOTH	ER	AU			
SAMPLE	TYPE:	☐ GW	□ww ⊠	SW 🗌 DI	LE	ACHATE	οτ	HER	
PUR	IGING	TIME:	DA	TE;	SA	MPLE	TIME: /	215	ATE: 2/27/06
PURGE	. [	PUMP			PH: _		SU CONT		VM umhos/cm
METHOD:		BAILER			ORP: _	NM,	nv DO:	NM mg/L	
DEPTH T	O WATER:		_T/ PVC		TURBIDI		1 NTU	•	
DEPTH T	O BOTTOM	1-12	_T/ PVC	· · · · · · · · · · · · · · · · · · ·	NONE			MODERATE	☐ VERY
METT NO	LUME:	$-M_L$	LITERS	GALLONS	TEMPER		UM	°C OTHER:	Froze,
	REMOVED		UTERS	GALLONS	COLOR:		<u>ज्यत</u>	ODOR:	Nove
COLOR:	7		ODC	OR:		E (0.45 um)	YES	NO NO	
TURBIDIT					FILTRATE			FILTRATE OD	OR:
NONE		IGHT	MODERATE	VERY	-	PLE: MS	S/MSD	DUP-	
DISPOSA	L METHOD	GROU	ND DRUM	OTHER	СОММЕ	NTS:	· · · · · · · · · · · · · · · · · · ·		
·: TIME :	PURGE RATE (MLMIN)	PH (SU)	CONBUCTIVITY	ORP (mV)		TURBIDITY (NTU)	TEMPERA:	. TEARC	PURGEL/PCOME (GALOR L)
						A CONTRACTOR OF THE PARTY OF TH			INITIAL
					<del>,</del>				
				18					
		***							
<del></del>								<u> </u>	<del>                                     </del>
-									
	Ī					<del></del>			
									].
NOT	E: STABILI	ZATION TE	ST IS COMPLET	E WHEN 3 SUC	CESSIVE R	EADINGS A	RE WITHIN	THE FOLLOW	ING LIMITS:
pH: +/-	0.1	COND.: +/-	10 ORP: +	-/- <b>10</b> D.O	+/- 10	TURB: +/-	10 OR	= <b 5	TEMP.: +/- 0.5°C
PROGRAMMENT CONTRACTOR	TLES.	PRESERV	ATIVE CODES	<del></del>					
FIL	LED:	A - NO	NE B-1	INO3 C	- H2SO4	D - Na	OH	E - HCL	F - Na2S2O3
NUMBER	SIZE	TYPE	PRESERVATIV	E FILTERED	NUMBER	SIZE	TYPE	PRESERVATI	VE FILTERED
31	40 mL	VOA	E	□Y ☑N	2	1 L	AMBER	F	□Y ☑N
-4	40 mL	VOA	A	N E Y	_2	1 [	PLASTIC	*	T DN
-4	40 mL	VOA	<del></del>	DY DN	-4-		PLASTIC		DY DN
,2	1 L	GLASS	- C	N E Y					OY ON
SHIPPING	METHOD:	Lab	icke DAT	E SHIPPED:	2/28/	106	AIRBIL	L NUMBER:	NA
COC NUM	BER:	0116		NATURE:	8:1	hiel	DATES	SIGNED: 2	7-7-
									<del>/                                    </del>



•								<u> </u>
PROJECT NAME:	L. E. (	Carpenter		Pa	EPARED.		Jehe	CKED:::1
PROJECT NUMBE	ER: 6527.	18	BY:	EV	DATE:	138/00 BY	70	DATE: 3/7/0
SÄMPLETD: <sub>M//</sub>	1-19-7		WELL DIAM	ETER: 🔀	2"	] 6" □OT	HER	
WELL MATERIAL		<b>∑</b> ss □	]IRONOTH	HER	· · · · ·	<del></del>		
SAMPLE TYPE:	₩ GW	□ww □	SW DI		LEACHATE	□от	HER	
EPURGING 2	TIME: C	9723 0	ATE: 2/27/04	, 9	AMPLE	TIME: O	148 1	DATE: 2/28/06
PURGE D	PUMP	COED	Bladder	PH:				130 umhos/cm
NETHOD:	BAILER	·	·	ORP:	_43_	mv DO:	1.86 mg/L	
DEPTH TO WATER	: 7.91	T/ PVC		TURBI	DITY: 1	עדע		
DEPTH TO BOTTO		_ T/ PVC	- <u></u>	□ NOI	NE 💢 S	LIGHT 🗌	MODERATE	VERY
VELL VOLUME:	7,97	LITERS	GALLONS		RATURE: _	10.81	°C OTHER:	21
VOLUME REMOVE		LITERS	GALLONS	COLO		oran		Slight
COLOR:	<u>Cloude</u>	7 0	OOR: <u>Slight</u>		TE (0.45 um)	☐ YES	NO NO	
	Cloudy UGHT [	MODERATE	☐ VERY		TE COLOR: _ MPLE: \ M	IS/MSD	FILTRATE OD	
DISPOSAL METHO		·	OTHER (2)			IS/IVISU	DUP- (	
			Z CONTRACTOR	See	anumater experience			
TIME PURGE BATE (MIZMIN	, PH	GGNDUCTIVITY (umhes/cm)	(mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERA (°C)	LEVEL	CUMULATIVE PURGE VOLUME (GAL ORB)
0923 400	6.60	1196	68.	7.83	17	8.33		INITIAL
095% ।	6.60	1157	46	1,99	26	10.5		2.0
0933	6.38	1141	44	1.68	14	10.7		4.0
6938	6.25	1138	44	1.72	14	10.8		6.0
6943	6.23	1134	44	1,90	15	10,6		0.8
0948 V	6,20	1130	43	1.86	14	10.8		0.0
						-		
							, ,	
NOTE: STABIL	IZATION TE	STIS COMPLE	TE WHEN 3 SU	CCESSIVE	READINGS	ARE WITHIN	THE FOLLOW	/ING LIMITS:
	COND.: +/-		•	D.: +/- <b>10</b>	TURB: +/-			TEMP.: +/- 0.5°C
E BOTTES.	PRESERV	ATIVE CODES	<del>, i - i im-, - i - ,</del>		······································			
FILLED :	A - NC	DNE B-	HNO3 C	- H2SO4	D - Na	aOH	E- HCL	F - <u>Na2S2O3</u>
NUMBER SIZE	TYPE	PRESERVATI	VE FILTERED	NUMBE	R SIZE	TYPE	PRESERVAT	IVE FILTERED
5 40 mL	VOA	E	□ Y ☑ I	N 2	1 L	AMBER	F	. Y V N
1 40 mL	VOA	Α	□ Y ☑ 1	N 2	1 L	PLASTIC	Α	Y V
1 40 mL	VOA	С		N 1	0.5L	PLASTIC	PA	□ Y ☑ N
2 1 L	GLASS	С		4	120 mL	Plastic	······································	□ Y ☑ N
HIPPING METHOD	ا طما	Piek so DA	TE SHIPPED:	2/28	Mr.		L NUMBER:	NA
OC NUMBER:		<del></del>	SNATURE:	0.	1/	-		
SO ITUMBER.	01147	11   510	JINA I URE:	1-1		DATES	SIGNED:	2/2/2/



PROJECT NAME:	l F (	Carpenter		- Be	EIPARIEIDE		= Cui	GKED - LE	
PROJECT NUMBE		<del></del>	B			/ / , RV		DATE: 3/7/04	
FROSECT NOMBE	.n. 0327.	in in the hand blade no		1. CV	DATE 3/	Zo/to BY	. 40	DATE: 3/7/04	<u>'</u> ]
SAMPLE ID: 📈	M-19-	G	WELL DIA	METER: 🏻	2"	] 6"OT	HER		
WELL MATERIAL:	☐ PVC	⊠ss [	IRON 0	THER					
SAMPLE TYPE:	<b>⊠</b> gw	□ww [	SW D	i 📗	LEACHATE	□от	HER		]
SERVICE L	TIME: 10	62 1	DATE: 2/28/	Ma s	AMPLE	TIME:	132	DATE: 2/28/06	Ī
villeday adhirtif i ces ilai a	LPUMP	OED &		PH:	2000 - The Control of	<u> </u>		umhos/cm	terrous
METHOD:	BAILER			ORP:	A27	mv DO:	3.71 mg/L	III & aminoson	4
DEPTH TO WATER:	8.71	_ T/ PVC		TURBI		NTU		III umhos/cm	HK.
DEPTH TO BOTTOM	19.61	T/ PVC		<b>⊠</b> NO	NE 🗌 SL	JGHT 📋	MODERATE.		02.7
WELL VOLUME:	7.06	LITERS	GALLONS	TEMPE	RATURE: _	9.93	°C OTHER:		coz'
VOLUME REMOVED		LITERS	GALLONS	COLO	R: CLP/	Bact	ODOR:	None	]
COLOR: CI	ucky/F	,	DOR:	FILTRA	TE (0.45 um)	YES	<b>⊠</b> NO		]
TURBIDITY:	Slight				TE COLOR:		FILTRATE OF	OOR:	1
<u> </u>		MODERATE	VERY		MPLE KIN	S/MSD )	DUP-		]
DISPOSAL METHOD	: GROU	ND DRUI	M TOTHER P	COMM	IENTS:		·		]
TIME PURGE	PH	CONDUCTIVIT	Y ORP	D.O.	TURBIDITY	TEMPERA	TURE WATER		
(ML/MIN)	(SU)	(mhos/cm)	(mV)	(mg/L)	(NTU)	(°G)	LEVEL	PURGE VOLUME (GAL OF E)	
1052 400	7.17	1146	102	6.62	99	7.04		INITIAL	]
1057	6.39	1110	192	3.10	32	9,9		2.0	
1102	6.19	1114	215	3,29	14	9,7		4,0	
1107	6.23	1114	222	3,33	١١٥	9,81	···	6.D	
1113	6.31	1114	328	3.32	12	9.98		8,0	1
1117	6.36	1113	237	3,57	7	9.60		10.0	1
1122	6.54	1114	337	3.6	6	9,83			1
1127	6.62	1114	236	3.71	4 (	0.07	l. <u> </u>	12.0	
1132 V	6.60	1116	237		4	9,53	8.71	14.0	- Agreet
NOW W	6.60	1110	d⊃ l	371		1.73	8,71	10.0	}
NOTE: STAR	747101:	OTIC ACTO							j
NOTE: STABILI pH: +/- 0.1	ZATION TE COND.: +/-		_	UCCESSIVE ).O.: +/- 10					
	<u> </u>		· · · · · · · · · · · · · · · · · · ·		10ng. +/-	IV OR	= <b 5	TEMP.: +/- 0.5°C	1
BOTTLES FILLED	PRESERV A - NO	ATIVE CODES	_	O 100004	5	OL!	E .1161	<u>.</u>	
NUMBER SIZE	TYPE	PRESERVAT		C - H2SO4 D NUMBE	D - Na	<del></del>	E- HCL	F - <u>Na2S2O3</u>	
	VOA					TYPE	PRESERVAT		
		E			1 L	AMBER	F	N D Y	
	VOA	Α			1 L	PLASTIC	A -2 .	□ Y ☑ N	
1 40 mL	VOA	С			0.51	PLASTIC	PA		
2 1 L	GLASS	С		N   \	120 mL	brange	<u> </u>	□Y ☑ N	
SHIPPING METHOD:	طها	Pickup D	ATE SHIPPED:	2/28/	66	AIRBIL	L NUMBER:	ΛΙΑ	
COC NUMBER:	01/47	<del></del>	IGNATURE:	5	1/:/	DATE	SIGNED:	2/2/0/2	



PROJECT N	AME:	L. E. (	Carpenter			· pp	EPARED		CHE	3KED	
PROJECT N	UMBER	· .			ВУ			BY		\	106
							<del>,</del>		<u> </u>	>[	
SAMPLE ID:	HA	1-19-	5	۷	VELL DIAM	METER: X	2" [ 4" [	] 6" []OT	HER		
WELL MATE			ss	IRON	। □ от	HER	· · · · · · · · · · · · · · · · · · ·				
SAMPLE TY	PE:	<b>⊠</b> GW	□ww	□sw			LEACHATE	OT	HER		
PURĞİN	₩G:::	TIME: 1	246	DATE:	2/28/0	ع ا ري	SAMPLE	TIME: )	316	ATE: 2/28/0	χ <sub>2</sub>
PURGE	X	PUMP	QEA	Blode	Ler'	PH:				512 umhos	
METHOD:		BAILER				ORP:	249	mv DO:	3.35 mg/L		C
DEPTH TO W	ATER:				· .	TURB	,				_   <sub>^</sub>
DEPTH TO BO	· · · · · · · · · · · · · · · · · · ·	- 1 /	<del></del>	<u> </u>		Ø7VC		LIGHT [	MODERATE	VERY	A'
WELL VOLUM		• • •	LITERS		ALLONS			8.17	°C OTHER:		
VOLUME REM	MOVED:		LITERS		ALLONS				ODOR:	Shight	= \w
COLOR:		loudy	•	ODOR: _	D NAM		ATE (0.45 um)	YES	NO NO		_
TURBIDITY:		GHT 📈	MODERAT	F	VERY		TE COLOR:	S/MSD	FILTRATE ODG	DR:	=
DISPOSAL MI					THER <b>T</b>		MENTS:	Uliviou			$\dashv$
<u> </u>	URGE	Dath and some sure and a second			_<\\\				(0.5.18) (0.5.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1		
IIME.	RATE (L/MIN)	PH (SU)	CONDUCTIV		ORP (mV)	.D.O: (mg/L)	TURBIDITY (NTU)	TEMPERA (°C)	- J. LEVEL	GUMULATN PURGE YOLL (GAL OF)	ME
1246 4	roc	TO SAL	503	15	<i>و</i>	6.83	LID	6.63	5 8,42	INITIAL	
1251	1	7.25	505	2	34	4,47	33	7,90		20	
1256		6.82	504	2		4.51	21	8.11	5,42	4.0	
1301		6.83	504	21		4,20	15	8,00		6.0	
1306		6,42	563	1	54	4.04	8	8,00		8.0	
1311		6.40	506	<b>3</b> :	,	387	4	8117	_ \	10.0	
1316 4	1	6.35	512	او		3,35	3	8117		12.0	
										, , , , ,	一 .
											一
											_
NOTE: S	TABILIZ	ATION TE	ST IS COMI	LETE W	HEN 3 SU	CCESSIVE	READINGS A	RE WITHIN	THE FOLLOWI	NG LIMITS:	
pH: +/- 0.1		OND.: +/-		RP: +/- 10		O.: +/- <b>10</b>	TURB: +/-			TEMP.: +/- 0.5	°C
BOIRTE	s l	PRESERV	ATIVE CODE		·· <u></u>		<del></del>		· · · · · · · · · · · · · · · · · · ·		$\neg$
FILLEC	Contract Contract	A - NOI		— В - HNОЗ		C - H2SO4	D - Na	ЮН	E- HCL	F - Na2S2	03
NUMBER S	SIZE	TYPE	PRESERV	ATIVE	FILTERE	NUMBI	ER SIZE	TYPE	PRESERVATIV		
5 40	0 mL	, VOA	E		Y 🕖	N 2	- 1L ,	AMBER	F		N
1 40	0 mL	VOA	Α		Y 🕢	N 2	1 L	PLASTIC	A		
1 40	0 mL	VOA	С		Y 🕗 I	N 1	0.5 L	PLASTIC	A		
2	1 L	GLASS	С		Y 🕢	N 1		plastic			
SHIPPING MET	THOD:	lab F	sickup	DATE SH	IPPED:	2/28	7		L NUMBER:	WA	=
COC NUMBER	:	01147	10	SIGNATU	JRE:	£ -	While	DATE S	SIGNED:	3/3/06	



PROJECT	NAME:	L. E. (	Carpenter	<del></del>			FIFE	ARED		, c	HEOKED.	
PROJECT	NUMBEF	R: 6527.	18			BY:	ΕV	DATE: 2/	28/04 BY	30	DATE: 3	<b>1</b> 00
SAMPLEID	ι 'Δ-	7 <b>4</b> _ fr	r je		WELL	DIAMET	ER: 2	"	6" <b>K</b> OT	HÉR	NA	
WELL MATE		PVC	r ∏ss	∏ IR¢	ON [	4.OTHE	 R	NA				
SAMPLE TY	/PE;	 ☐ GW	□ww	sv	N D	Di		ACHATE	□от	HER		• .
PURGI	NG	TIME:		DATE	: :		SA	MPLE	TIME: 12	350	DATE: 2/28	·/N
PURGE		PUMP		<u>.</u>		_	PH:	NH s		DUCTIVITY:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	nos/cm
METHOD:		BAILER				<del>-</del>	ORP: _	NM ,	nv DO:	NM m		
DEPTH TO V	VATER:		T/ PVC				TURBIDI		M NTU			
DEPTH TO E	BOTTOM:		T/ PVC				NONE	SL	IGHT 🔲	MODERA	TE VEF	₹Y
WELL VOLUM	ME:	N	LITERS	=	GALL		TEMPER	ATURE:	NH	°C OTHE		
VOLUME RE	MOVED:	/	LITERS		GALL	ONS	COLOR:	<u>c</u>	<u>ue_</u>	ODOR:	None	
COLOR:		<del></del>		ODOR	i:	<del></del> .	<del></del>	(0.45 um)	YES	NO NO		
TURBIDITY:		знт 🗀	MODERAT	F	□ v	ERY	QC SAM		S/MSD	FILTRATE DUP-	ODOR:	
DISPOSAL N				UM 🗍	OTHE		COMME					
	PURGE											
LUME 1	RATE.	+; PH	CONDUCTO		ORP			FURBIDITY .	TEMPERA	TURE LEV	EL PURGE VO	LUME
16	ML/MIN)	(SU)	(umhos/e	n) 📗	(mV)		mg/L)	(NTU)	(°C)	(FEI		
		<del></del>		-							INITIA	
	7.1		<u> </u>									
				_		· 💫			ļ			
						1						
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·		/	, <u>, , , , , , , , , , , , , , , , , , </u>		•							
					<u> </u>							
								<del> </del>				
											-	
		ATION TE				3 SUC	ESSIVE R			THE FOLL	OWING LIMITS:	
pH: +/- <b>0.</b> 1	1 C	OND.: +/-	10 0	RP: +/-	10	D.O.:	+/- 10	TURB: +/-	10 OR	= 5</td <td>TEMP.: +/- 0</td> <td>).5°C</td>	TEMP.: +/- 0	).5°C
BOTTL	13/11/2/2007 10:55		ATIVE COD									
P FILLS		A - NO		B - HN			H2SO4	D - Na	ОН	E - HCL	F - <u>Na28</u>	3203
<del> </del>	SIZE	TYPE	PRESERV	ATIVE		ERED	NUMBER		TYPE	PRESER\		RED
<del></del>	40 mL	VOA	E		<u> </u>	N C	2	1 L	AMBER	F	Y [	<u> </u>
	40 mL	VOA	A	·,	<u> </u>	IJ N	2	1 L	PLASTIC	Α		=
	40 mL	VOA	<u>C</u>	_		☑ N	1	0.5m		حر		N E
2	1 L	GLASS	С		<u> </u>	<u>И</u> И		120 mL	Plastic		□ Y [	<b>У</b> И
SHIPPING ME	THOD:	Jah F	Pickup	DATE	SHIPP	ED:	2/28/0	ملا	AIRBIL	LNUMBER	NA	
COC NUMBER	<del></del>	DI14-		SIGNA	TURE:		1	/:/	DATE S	SIGNED:	3/2/1/2	=



PROJECT NAME: L. E. Carpenter		CHEO!	
PROJECT NUMBER: 6527.18			
THOSE THOMPEN. 0027.10	ارد: BY: EV DATE	BY: SO E	DATE: 3/7/06
SAMPLE ID: MW-19 we	LL DIAMETER: 2" 🔀 4" 🗌	6" OTHER	
WELL MATERIAL: PVC XSS INON	OTHER		
SAMPLE TYPE: K GW WW SW	DI LEACHATE	OTHER	
PURGING TIME: 1506 DATE: 2/	SAMPLE SAMPLE	TIME: 1526 DAT	E: 2/28/06 Fur
PURGE PUMP QED Black	der PH: 6.59 s	SU CONDUCTIVITY: 97	
METHOD: BAILER	ORP:	nv DO: 3.53 mg/L	//A
DEPTH TO WATER: _S. 61 T/ PVC	TURBIDITY: 13	NTU	
DEPTH TO ВОГТОМ: 16.58 T/ PVC	NONE X SL		VERY
		8.72 °C OTHER: _	ω
The second secon	LONS COLOR: CUL/		rong 7
COLOR: CLP/BIX Part. ODOR: SI	FILTRATE (0.45 um)	YES X NO	
TURBIDITY: Shights	FILTRATE COLOR:	FILTRATE ODOR	:
		MSD DUP-	
DISPOSAL METHOD: GROUND DRUM OTH	COMMENTS:		
TIME PURGE PH. CONDUCTIVITY OR	P D.O. TURBIDITY		CUMULATIVE
(MLMIN) (SU) (umhos/om) (m)	/) (iñg/L) (NTU)	- R. C.	URGE, VOLUME
1506 400 6.06 954 -18	5.74 27	6.64 8.68	INITIAL
1511 1 6.56 965 -56	2 227 19	8.63 8.75	2.6
1516 6.50 970 -5	2 282 17	8.40 8.75	4.0
1521 / 6.58 979 -50	3.31 16	8.47 8.75	6.0
1526 V 6.59 978 -50		8.72 8.75	8.0
	,		
NOTE: STABILIZATION TEST IS COMPLETE WHE	N 3 SUCCESSIVE PEARINGS AT	DE MITHIN THE PART AND A	
pH: +/- 0.1 COND.: +/- 10 ORP: +/- 10	D.O.: +/- 10 TURB: +/-		A LIMITS: Mp.: +/- 0.5°C
BOTTLES PRESERVATIVE CODES		011 7-0 161	
FILLED A - NONE B - HNO3	C - H2SO4 D - NaC		F. N. Para
TARAMAN BANGAN TARAMAN	TERED NUMBER SIZE		F - Na2S2O3
5 40 mL VOA E TY			FILTERED
1 40 mL VOA A TY			U V U N
	=	PLASTIC A	□ Y ☑ N
		PLASTIC PA	N N
2 1L GLASS C Y	N   120 mL	plastic	□ Y ☑ N
SHIPPING METHOD: Fd Ex DATE SHIPP	PED: 2/28/06	AIRBILL NUMBER: 85	3410717208
COC NUMBER: 0116971 SIGNATURE		<u> </u>	2/2/



PROJECT NAME: L. E. Car	rpenter	TEREPARED		eked	
PROJECT NUMBER: 6527.18	BY:	EV & JO DATE: 2/2	R/V BY: 10	DATE: 3/7/00	
SAMPLE D: MW-19-4	WELL DIAME		6" OTHER		
	SS ☐ IRON ☐ OTHE		o		
SAMPLE TYPE: K GW	ww sw di	LEACHATE	OTHER		
andean normania na saidh na ghreach an ch					<u> </u>
67	32 DATE: 2/26/06	SAMPLE 52		DATE: 2/28/06	
PURGE PUMP _	QED Bladder	1.1	U CONDUCTIVITY:	1351 umhos/cm	AIK-12
DEPTH TO WATER: \$\frac{\chi_{103}}{103} T/	/ PVC	TURBIDITY: 14	NTU		
DEPTH TO BOTTOM 16.02 T/		NONE SL	<del></del>	☐ VERY	(Oz->50
WELL VOLUME: 19.74 K		TEMPERATURE:	5 . Lal °C OTHER		
VOLUME REMOVED: 12	LITERS GALLONS	COLOR:	ODOR:	None	Errous - 0.6
COLOR: Cloudy	ODOR: Neme	FILTRATE (0.45 um)	YES X NO		
TURBIDITY: Claudy		FILTRATE COLOR:	FILTRATE O	DOR:	
	ODERATE VERY		MSD DUP-	<del></del>	
DISPOSAL METHOD GROUND	DRUM TOTHER	A COMMENTS:			
TIME PURGE PH 60	ONDUCTIVERY (GRP	idke) inukalajny:	JEMPERAIJURE WATE	PURCEVOLUNE	
		(mg/L) (NTU)	(CE)		
1632 400 8.68		१७० ।४	4.32 8.03	INITIAL	
1637 7.74		1.80 17	5.36 8.11	2.0	
1642 7.54		7.75 16	5.75 8.16		
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17657 7.54	1352	155 14	5.33 8.16		
1702 4 7.53	135	162 14	5.61 8.16	12.0	
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# Analysis Request/Environmental Services Chain of Custody



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For Lancaster Laboratories use only

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# Appendix E 1<sup>st</sup> Quarter 2006 Laboratory Analytical Report



2425 New Holland Piles, PO Box 12425, Languater, PA 17605-2425 • 717-658-2300 Fax: 717-658-2681 • www.languasterlabs.com

#### ANALYTICAL RESULTS

Prepared for:

RMT, Inc. PO Box 8923 Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

#### **SAMPLE GROUP**

The sample group for this submittal is 979768. Samples arrived at the laboratory on Tuesday, February 28, 2006. The PO# for this group is 6527.18.

Client Description	Lancaster Labs Number
SW-R-1 Grab Water Sample	4718899
SW-R-2 Grab Water Sample	4718900
SW-R-3 Grab Water Sample	4718901
SW-R-4 Grab Water Sample	4718902
SW-R-6 Grab Water Sample	4718903
SW-R-5 Grab Water Sample	4718904
SW-D-3 Grab Water Sample	4718905
SW-D-2 Grab Water Sample	4718906
SW-D-1 Grab Water Sample	4718907
DUP-01 Grab Water Sample	4718908

#### **METHODOLOGY**

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO

RMT, Inc.

1 COPY TO

Data Package Group

Attn: Nicholas J. Clevett



2425 New Holland Pike PO Box 12425 Languager PA 17605-2425 -717-656-2300 Few 717-656-2681 supply languagers plant com-

Questions? Contact your Client Services Representative Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

Elizabeth A. Smith Senior Specialist



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Page 1 of 1

Lancaster Laboratories Sample No. WW 4718899

SW-R-1 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/27/2006 09:05

by EV

Account Number: 09322

Submitted: 02/28/2006 17:40 Reported: 03/14/2006 at 12:11

RMT, Inc. PO Box 8923

Madison WI 53708-8923

Discard: 04/14/2006

SWR1-SDG#: LEC54-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	1.4 J	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	0.3 J	0.2	ug/l	1
00553	Base Neutrals	•				
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	0.9	ug/l	1

State of New Jersey Lab Certification No. PA011

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CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
08238	BTEX (EPA 602)	EPA 602	1	03/03/2006 01:37	K. Robert Caulfeild- James	ì
00553	Base Neutrals	EPA 625	1	03/07/2006 01:48	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	03/02/2006 08:15	Zachary S Dennis	1



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Page 1 of 1

Lancaster Laboratories Sample No. 4718900

SW-R-2 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/27/2006 09:15

Account Number: 09322

Submitted: 02/28/2006 17:40 Reported: 03/14/2006 at 12:11

RMT, Inc. PO Box 8923

Discard: 04/14/2006

Madison WI 53708-8923

SWR2-

SDG#: LEC54-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)	•	· •		1	
05538	Total Xylenes	1330-20-7	2.3 ј	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	0.5 J	0.2	ug/l	1 .
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT		Analysis				
No.	Analysis Name	Method	Trial# Date and Time Analyst	Dilution Factor		
08238	BTEX (EPA 602)	EPA 602	1 03/03/2006 02:10 K. Robert Cau			
00553	Base Neutrals	EPA 625	1 03/07/2006 02:38 Brian K Grahar	1		
08108	625 Water Extraction	EPA 625	1 03/02/2006 08:15 Zachary S Deni	· —		



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#### Lancaster Laboratories Sample No. 4718901

SW-R-3 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/27/2006 09:40

by EV

Account Number: 09322

Submitted: 02/28/2006 17:40

RMT, Inc. PO Box 8923

Reported: 03/14/2006 at 12:11 Discard: 04/14/2006

Madison WI 53708-8923

SDG#: LEC54-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)	•				•
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/1	· 1
00553	Base Neutrals			•		
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1.

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT			•	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
08238	BTEX (EPA 602)	EPA 602	1	03/03/2006 02:44	K. Robert Caulfeild-	
00553 08108	Base Neutrals	EPA 625	_	03/07/2006 03:28	James Brian K Graham	1
00100	625 Water Extraction	EPA 625	. 1	03/02/2006 08:15	Zachary S Dennis	1



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Lancaster Laboratories Sample No. 4718902

SW-R-4 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/27/2006 09:55

by EV

Account Number: 09322

Submitted: 02/28/2006 17:40 Reported: 03/14/2006 at 12:11

RMT, Inc. PO Box 8923

Madison WI 53708-8923

Discard: 04/14/2006

SWR4- SDG#: LEC54-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection	Units	Dilution Factor
				Limit		
08238	BTEX (EPA 602)		·			
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	0.9	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory	Chronicle
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CAT			Analysis			
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
08238	BTEX (EPA 602)	EPA 602	1	03/03/2006 03:17	K. Robert Caulfeild- James	1
00553	Base Neutrals	EPA 625	1	03/07/2006 05:08	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	03/02/2006 08:15	Zachary S Dennis	1



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Lancaster Laboratories Sample No. WW 4718903

SW-R-6 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/27/2006 10:10

by EV

Account Number: 09322

Submitted: 02/28/2006 17:40 Reported: 03/14/2006 at 12:11

Discard: 04/14/2006

RMT, Inc. PO Box 8923

Madison WI 53708-8923

SWR6- SDG#: LEC54-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	Ñ.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1 .
07031	Ethylbenzene	.100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals			•		
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

	Laboratory Chronicle						
CAT No.	Analysis Name			Analysis	•	Dilution	
	- · · · · · · · · · · · · · · · · · · ·	Method	Trial#	Date and Time	Analyst	Factor	
08238	BTEX (EPA 602)	EPA 602	1	03/03/2006 03:50	K. Robert Caulfeild- James	1	
00553	Base Neutrals	EPA 625	1	03/08/2006 04:28	Brian K Graham	1	
08108	625 Water Extraction	EPA 625	1	03/02/2006 08:15	Zachary S Dennis	1	



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Lancaster Laboratories Sample No. WW 4718904

SW-R-5 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/27/2006 10:40

by EV

Account Number: 09322

Submitted: 02/28/2006 17:40 Reported: 03/14/2006 at 12:11

RMT, Inc. PO Box 8923

Madison WI 53708-8923

Discard: 04/14/2006

SWR5-SDG#: LEC54-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					٠
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

		Laboratory	Chro:	nicle		
CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
08238	BTEX (EPA 602)	EPA 602	1	03/03/2006 04:24	K. Robert Caulfeild-	
00553	Base Neutrals	EPA 625	1	03/07/2006 09:04	James Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	03/02/2006 08:15	Zachary S Dennis	1



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#### Lancaster Laboratories Sample No. WW 4718905

SW-D-3 Grab Water Sample L.E. Carpenter, NJ

Collected:02/27/2006 11:40

by EV

Account Number: 09322

Submitted: 02/28/2006 17:40 Reported: 03/14/2006 at 12:11

Discard: 04/14/2006 at

RMT, Inc. PO Box 8923

Madison WI 53708-8923

SWD3 - SDG#: LEC54-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	3.9	0.6	ug/l	1 .
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	1.1	0.2	ug/l	1
00553	Base Neutrals					*.
00669	bis(2-Ethylhexyl)phthalate	117-81-7	6. J	0.9	ug/l	1

State of New Jersey Lab Certification No. PA011

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Laboratory	Chror	170	cle

CAT			4	Analysis		Dilution
No. 08238	Analysis Name BTEX (EPA 602)	Method EPA 602	Trial# 1	Date and Time 03/03/2006 04:57	Analyst K. Robert Caulfeild-	Factor
00553 08108	Base Neutrals 625 Water Extraction	EPA 625 EPA 625	1 <sub>.</sub> 1	03/07/2006 09:54 03/02/2006 08:15	James Brian K Graham Zachary S Dennis	1



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Lancaster Laboratories Sample No. 4718906

SW-D-2 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/27/2006 11:55

Account Number: 09322

Submitted: 02/28/2006 17:40 Reported: 03/14/2006 at 12:11 Discard: 04/14/2006

RMT, Inc. PO Box 8923

Madison WI 53708-8923

SWD2-

SDG#: LEC54-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	2.7 J	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	0.8 Ј	0.2	ug/l	1
00553	Base Neutrals	•	٠.			
00669	bis(2-Ethylhexyl)phthalate	117-81-7	27.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT	•		-	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analýst	Factor
08238	BTEX (EPA 602)	EPA 602	1	03/03/2006 05:30	K. Robert Caulfeild- James	1
00553	Base Neutrals	EPA 625	1	03/07/2006 10:44	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	03/02/2006 08:15	Zachary S Dennis	1



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Lancaster Laboratories Sample No. WW 4718907

SW-D-1 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/27/2006 12:15

by EV

Account Number: 09322

Submitted: 02/28/2006 17:40

Reported: 03/14/2006 at 12:11

Discard: 04/14/2006

RMT, Inc. PO Box 8923

Madison WI 53708-8923

SWD1- SDG#: LEC54-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	06	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals			•		
00669	bis(2-Ethylhexyl)phthalate	117-81-7	2. J	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT	. •		Analysis	t	Dilution
No.	Analysis Name	Method	Trial# Date and Time	Analyst	Factor
08238	BTEX (EPA 602)	EPA 602	1 03/03/2006 06:03	K. Robert Caulfeild- James	1
00553	Base Neutrals	EPA 625	1 03/07/2006 11:33	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1 03/02/2006 08:15	Zachary S Dennis	1



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Lancaster Laboratories Sample No. 4718908

DUP-01 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/27/2006

Account Number: 09322

Submitted: 02/28/2006 17:40 Reported: 03/14/2006 at 12:11

RMT, Inc. PO Box 8923

Madison WI 53708-8923

Discard: 04/14/2006

DUP1-SDG#: LEC54-10FD\*

CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
08238	BTEX (EPA 602)		•			
05538	Total Xylenes	1330-20-7	2.7 J	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	0.8 J	0.2	ug/l	1
00553	Base Neutrals			,		
00669	bis(2-Ethylhexyl)phthalate	117-81-7	480.	10.	ug/l	· i
	Due to sample matrix interference normal reporting limits could		_	tion, the		

State of New Jersey Lab Certification No. PA011

		Laboratory	Chro	nicle		
CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
08238	BTEX (EPA 602)	EPA 602	1 .	03/03/2006 06:37	K. Robert Caulfeild- James	1
00553	Base Neutrals	EPA 625	1	03/07/2006 12:23	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	03/02/2006 08:15	Zachary S Dennis	1



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#### Quality Control Summary

Client Name: RMT, Inc.

Reported: 03/14/06 at 12:11 PM

Group Number: 979768

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the

#### Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 06060A36A	Sample n	umber(s):	4718899-47	18908				
Total Xylenes	N.D.	0.6	ug/l	101	101	82-120	0	30
Benzene	N.D.	0.2	ug/l	103	104	86-119	Ō	30
Toluene	N.D.	0.2	ug/l	100	100	82-119	Ō	30
Ethylbenzene	N.D.	0.2	ug/l	101	101	81-119	0	30
Batch number: 06060WAG625	Sample n	umber(s):	4718899-47	18908	,			
bis(2-Ethylhexyl)phthalate	N.D.	1.	ug/l	90		68-111		

#### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP <u>RPD</u>	Dup RPD Max
Batch number: 06060A36A Total Xylenes Benzene Toluene Ethylbenzene	Sample 111 111 112 112	number	(s): 471889 84-131 78-131 78-129 75-133	99-47189	068 UNS	PK: P718374			
Batch number: 06060WAG625 bis(2-Ethylhexy1)phthalate	Sample 85	number 87	(s): 471889 64-113	99-47189 2	08 UNS 30	PK: P718877			

#### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX (EPA 602) Batch number: 06060A36A Trifluorotoluene-P

4718899	98
4718900	100
4718901	97
4718902	97
4718903	99
4718904	98
4718905	98
4718906	98

#### \*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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#### Quality Control Summary

Group Number: 979768

Client Name: RMT, Inc.
Reported: 03/14/06 at 12:11 PM

Surrogate Quality Control

4718907 99 4718908 98 Blank 99 99 LCSD 99 MS

69-129 Limits:

Analysis Name: Base Neutrals Batch number: 06060WAG625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
4718899	76	81	72
4718900	72	72	73
4718901	78	81	71
4718902	77	86	75
4718903	84	89	78
4718904	82	86	77
4718905	77	84	85
4718906	75	81	. 83
4718907	77	82	78
4718908	74	85	80
Blank	82	87	83
LCS	88	91	95
MS	82	87	78
MSD	87	88	86
Limits:	48-117	62-111	33_155

\*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.

### Analysis Reques Environmental Services Chain of Castody For Lancaster Laboratories use only

- Fanniainik2				11/0						09	CC	)C # (	011698	1
Client: KMT Inc		Please print. In		s on reverse	side con			ed numbe	ers.		+01	Mp 0,4	-2.0°C	
Project Name/#: 6527, 18		#:			4		3	4.4.7					For Lab Use	Only
Project Manager: N. Cleyett	P.O.#	D#:				Ž		.					FSC: SCR#: 23	<b>4</b>
sampler: E. Vincke	Quote								- 1					6
Name of state where samples were collected:	N	#						1 1						
2			3			BETE	DEHP							
SW- R-1	2/27	0905	X	V	5	x	~	++	_	+		Remarks		
_ SW- A-2		0915	11	110	1	<del> </del> +	X	+-+				· · · · · · · · · · · · · · · · · · ·	·	
SW-R-3		0940	<del>††</del> †	1++-		X	<u> </u>			+				
SW- R-4		0955	<del>                                      </del>				쉿	+-+		+	4		<del></del>	
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SW- R-5		1040	111	1111	-	7	X	+		+-+-	+	· · · · · · · · · · · · · · · · · · ·		<del> </del>
SW- D-3		1140		<del>                                     </del>	-11	X	<u>~</u>	┿╌┼╴		╁╌┼—	-			
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DUP-OI	2/27		×	X	5	X		+	+-		+	·=0 1		
Turnaround Time Requested (TAT) (please of (Rush TAT is subject to Lancaster Laboratories appropriate results are recorded.	ircle): Norma	Rush	Rel	inquished b	V:	<u> </u>	<u> </u>	Date	Time	Doorbe		TB ako	sent	<del></del>
age respire are needed: \(\sigma\) \(\sigma\) \(\sigma\)		rge.)		130 H	65	PX	age	Jane	Inte	Receive	ed by:		Date	Firme (9
Rush results requested by (please circle): Phone #: (ala-976-646)	one Fax	E-mail )	Reti	nquished b			)	Date	Time	Receive	d by:	<del></del>	Data	<del></del>
Phone #: 6/6-975-54/5 Fax #: 6 E-mail address: jenniter. over voorde	16-975-	1098	1	<u>~ 1/-</u>	is	<u>~_</u>	2	28/06	1410		A	2	Date	Time Yala
Data Package Options (please circle if required)		G Complete?	Reli	nquished by			*	Date	Time	Receive	d by:		Date	ime
CC Summary Type VI (Raw Data)	Ye	s No.		nquished by	en b	Zu		34	34	4				$T \mid I$
Type I (Tier I)  GLP Site-specific QC r  Other (If we, indicate QC and	equired? Yes	No No		ildaistien Di	<b>/</b> {			Date	Lime	Receive	d by:		Date	Time
Type III (NJ Red. Del.) Internal Chain of I	nple and submit i	riplicate volume.	Relin	quished by				Date	Time		41	- A		
Type IV (CLP)		cot tes M								Received	oy:	Dol.	Dank	Time
Lancaster Contest No. 11	Laboratories, Ir I yellow should	ic., 2425 New !	Holland F	ike. PO Rov	12425	i angast	- D4 4	<u>-</u>	-4			C YUM	No Ula	1/1/
Copies: White and	yellow should	accompany se	imples to	Lancaster L	aborator	ries. The	er, PA 1/ ∋ pink co	ou5-2425 py should	(717) be retai	656-2300 ned by the	client.			2102.02

### Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

ne detected	BMOL	Below Minimum Quantitation Level
		Most Probable Number
		cobalt-chloroplatinate units
	and the second s	nephelometric turbidity units
		degrees Fahrenheit
•	i de la companya de	pound(s)
•		kilogram(s)
		milligram(s)
• •	g	liter(s)
•	ul	microliter(s)
•		fibers greater than 5 microns in length per ml
	ne detected o Numerous To Count ernational Units cromhos/cm grees Celsius et) calories liequivalents am(s) crogram(s) liliter(s) bic meter(s)	o Numerous To Count ernational Units  CP Units cromhos/cm grees Celsius et) calories liliequivalents am(s) mg crogram(s) lililiter(s)  MPN MPN MPN MPN MPN MPN MPN MPN MPN MP

- less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than

ppm parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**Inorganic Qualifiers** 

ppb parts per billion

Dry weight
basis
Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

#### **Organic Qualifiers**

A	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quatitated on a diluted sample	N	Spike amount not within control limits
E	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
	the instrument		for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
P	Concentration difference between primary and	*	Duplicate analysis not within control limits
	confirmation columns >25%	+	Correlation coefficient for MSA < 0.995
U	Compound was not detected		
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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#### ANALYTICAL RESULTS

Prepared for:

RMT, Inc. PO Box 8923 Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

#### **SAMPLE GROUP**

The sample group for this submittal is 979764. Samples arrived at the laboratory on Tuesday, February 28, 2006. The PO# for this group is 6527.18.

Client Description	Lancaster Labs Number
MW-19-7 Grab Water Sample	4718876
MW-19-6 Unspiked Grab Water Sample	4718877
MW-19-6 Matrix Spike Grab Water Sample	4718878
MW-19-6 Matrix Spike Dup Grab Water Sample	4718879
MW-19-6 Duplicate Grab Water Sample	4718880
DUP-02 Grab Water Sample	4718881
MW-19-5 Grab Water Sample	4718882
ATM-01 Grab Water Sample	4718883
Trip Blank Water Sample	4718884

#### **METHODOLOGY**

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

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RMT, Inc.

1 COPY TO

Data Package Group

Attn: Nicholas J. Clevett



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Questions? Contact your Client Services Representative Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

Elizabeth A. Smith Senior Specialist



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Lancaster Laboratories Sample No. 4718876

MW-19-7 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 09:48

Account Number: 09322

Submitted: 02/28/2006 17:40 Reported: 03/14/2006 at 12:00

SDG#: LEC53-01

RMT, Inc. PO Box 8923

Madison WI 53708-8923

Discard: 04/14/2006

197--

CAT	,		As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00307	Heterotrophic Plate Count	n.a.	14.	1	cfu/ml	n.a.
	This result is an estimated con	int. At least	one plate used t	o calculate		
	the result is outside the estal colony forming units (cfu) per		ng range of 30 to	300		
	colony forming units (cit) per	dilucion.				
	The plating was performed by Ma	arlaina Kohler	on 030106 at 075	iO.		
00206	Total Suspended Solids	n.a.	33.2	3.0	mg/l	1 .
00212	Total Dissolved Solids	n.a.	621.	19.4	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	0.051	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mq/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.20	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	0.30	0.080	mg/l	1
00228	Sulfate	14808-79-8	.2.2 J	1.5	mg/l	. 5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	10,000.	500.	ug/l	250
07107	Ethane	74-84-0	12.	1.0	ug/l	
07108	Ethene	74-85-1	N.D.	1.0	ug/l ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	870.	3.0	ug/l	5
07029	Benzene	71-43-2	7.5	0.2	ug/l	1
07030	Toluene	108-88-3	0.3 J	0.2	ug/1	1
07031	Ethylbenzene	100-41-4	4.9	0.2	ug/l	ī
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	úg/l	1

State of New Jersey Lab Certification No. PA011



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Lancaster Laboratories Sample No. WW 4718876

MW-19-7 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 09:48

by EV

Account Number: 09322

Submitted: 02/28/2006 17:40 Reported: 03/14/2006 at 12:00

RMT, Inc. PO Box 8923

Discard: 04/14/2006

Madison WI 53708-8923

197-- SDG#: LEC53-01

		Laboratory	Cnro	nicie		
CAT		_		Analysis	•	Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00307	Heterotrophic Plate Count	SM20 9215 B	1	03/03/2006 08:00	Marlaina E Kohler	n.a.
00206	Total Suspended Solids	EPA 160.2	1	03/02/2006 11:53	Yolunder Y Bunch	1
00212	Total Dissolved Solids	EPA 160.1	1	03/02/2006 08:05	Yolunder Y Bunch	1
00219	Nitrite Nitrogen	EPA 353.2	1	02/28/2006 21:45	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	03/07/2006 20:31	Venia B McFadden	1
00221	Ammonia Nitrogen	EPA 350.2	1	03/03/2006 16:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	03/06/2006 19:37	Venia B McFadden	1
00228	Sulfate	EPA 300.0	. 1	03/10/2006 20:06	Nicole M Kepley	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	<b>1</b> .	03/03/2006 16:37	Laura A Lockard	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	03/06/2006 11:56	Laura A Lockard	250
08238	BTEX (EPA 602)	EPA 602	1	03/07/2006 20:51	K. Robert Caulfeild- James	5
08238	BTEX (EPA 602)	EPA 602	. 1	03/07/2006 21:58	K. Robert Caulfeild- James	1
00553	Base Neutrals	EPA 625	1	03/06/2006 22:29	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1`	03/02/2006 08:15	Zachary S Dennis	1
08263	Total Phos as P Prep	EPA 365.1	1,	03/02/2006 12:40	Nancy J Shoop	1



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Lancaster Laboratories Sample No. WW 4718877

MW-19-6 Unspiked Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 11:32

Account Number: 09322

Submitted: 02/28/2006 17:40 Reported: 03/14/2006 at 12:00 Discard: 04/14/2006

RMT, Inc. PO Box 8923

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196--

SDG#: LEC53-02BKG

				As Received		
CAT	·		As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	<b>Factor</b>
00307	Heterotrophic Plate Count	n.a.	14.	1.	cfu/ml	n.a.
	This result is an estimated co	unt. At least	one plate used t	o calculate		
	the result is outside the estal		ng range of 30 to	300		
	colony forming units (cfu) per	dilution.				
	•					
	The plating was performed by M	arlaina Kohler	on 030106 at 075	50.		
00206	Total Suspended Solids	n.a.	4.4 J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	634.	19.4	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	1.8	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	Ŋ.D.	0.20	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	36.6	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon		•			
07106	Methane	74-82-8	50.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)			·.	•	
05538	Total Xylenes	1330-20-7	23.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	65.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	5.8	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	Ñ.D.	1.	ug/l	1

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Lancaster Laboratories Sample No. WW 4718877

MW-19-6 Unspiked Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 11:32

by EV

Account Number: 09322

Submitted: 02/28/2006 17:40

RMT, Inc. PO Box 8923

Reported: 03/14/2006 at 12:00 Discard: 04/14/2006

Madison WI 53708-8923

196--

SDG#: LEC53-02BKG

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CAT	• •			Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00307	Heterotrophic Plate Count	SM20 9215 B	1	03/03/2006 08:00	Marlaina E Kohler	n.a.
00206	Total Suspended Solids	EPA 160.2	1	03/02/2006 11:53	Yolunder Y Bunch	1
00212	Total Dissolved Solids	EPA 160.1	1	03/02/2006 08:05	Yolunder Y Bunch	ī
00219	Nitrite Nitrogen	EPA 353.2	1.	02/28/2006 21:46	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	03/07/2006 20:34	Venia B McFadden	ī
00221	Ammonia Nitrogen	EPA 350.2	1	03/03/2006 16:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	03/06/2006 19:39	Venia B McFadden	ī
00228	Sulfate	EPA 300.0	i	03/10/2006 19:25	Nicole M Kepley	5
07105	Volatile Headspace Hydrocarbon	SW-846 B015B modified	1	03/03/2006 16:53	Laura A Lockard	1
08238	BTEX (EPA 602)	EPA 602	1	03/07/2006 19:11	K. Robert Caulfeild- James	1
00553	Base Neutrals	EPA 625	1	03/06/2006 19:59	Brian K Graham	-
08108	625 Water Extraction	EPA 625	1	03/02/2006 08:15	Zachary S Dennis	•
08263	Total Phos as P Prep (water)	EPA 365.1	1	03/02/2006 12:40	Nancy J Shoop	1



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Lancaster Laboratories Sample No. WW 4718878

MW-19-6 Matrix Spike Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 11:32

by EV

Account Number: 09322

Submitted: 02/28/2006 17:40 Reported: 03/14/2006 at 12:00

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Discard: 04/14/2006

196--SDG#: LEC53-02MS

				As Received	•	
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00212	Total Dissolved Solids	n.a.	1,050.	19.4	mg/l	1 .
00219	Nitrite Nitrogen	14797-65-0	0.21	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	2.7	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	6.8	0.20	mg/l	. 1
00227	Total Phosphorus as P (water)	7723-14-0	2.0	0.080	mg/1	1
00228	Sulfate	14808-79-8	88.8	.3.0	mg/l	10
07105	Volatile Headspace Hydrocarbon					•
07106	Methane	74-82-8	110.	2.0	ug/l	1
07107	Ethane	74-84-0	60.	1.0	ug/l	1
07108	Ethene	74-85-1	64.	1.0	ug/l	1
07109	Propane	74-98-6	65.	10	ug/l	1
08238	BTEX (EPA 602)				•	
05538	Total Xylenes	1330-20-7	84.	0.6	ug/l	1
07029	Benzene	71-43-2	21.	0.2	ug/l	1
07030	Toluene	108-88-3	82.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	27.	0.2	ug/l	1
00553	Base Neutrals		•			
00669	bis(2-Ethylhexyl)phthalate	117-81-7	90.	1.	ug/l	. 1

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#### Lancaster Laboratories Sample No. WW 4718878

MW-19-6 Matrix Spike Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 11:32	by EV	Account Number: 09322
Submitted: 02/28/2006 17:40 Reported: 03/14/2006 at 12:00 Discard: 04/14/2006	·	RMT, Inc. PO Box 8923 Madison WI 53708-8923

196	SDG#: LEC53-02MS					
00227	Total Phosphorus as P (water)	EPA 365.1	1	03/06/2006 19:40	Venia B McFadden	1
00228	Sulfate	EPA 300.0	1	03/10/2006 19:52	Nicole M Kepley	10
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	03/03/2006 17:09	Laura A Lockard	1
08238	BTEX (EPA 602)	EPA 602	1	03/07/2006 19:45	K. Robert Caulfeild- James	1
00553	Base Neutrals	EPA 625	1	03/06/2006 20:49	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	03/02/2006 08:15	Zachary S Dennis	1
08263	Total Phos as P Prep	EPA 365.1	1	03/02/2006 12:40	Nancy J Shoop	1



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Lancaster Laboratories Sample No. WW 4718879

MW-19-6 Matrix Spike Dup Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 11:32

by EV

Account Number: 09322

Submitted: 02/28/2006 17:40

SDG#: LEC53-02MSD

RMT, Inc. PO Box 8923

Reported: 03/14/2006 at 12:00

Madison WI 53708-8923

Discard: 04/14/2006

196--

		•		As Received		•
CAT	•		As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00212	Total Dissolved Solids	n.a.	1,050.	19.4	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	7.0	0.20	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	99.	2.0	ug/l	1
07107	Ethane	74-84-0	59.	1.0	ug/l	1
07108	Ethene	74-85-1	64.	1.0	ug/l	1
07109	Propane	74-98-6	65.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	88.	0.6	ug/l	1
07029	Benzene	71-43-2	22.	0.2	ug/l	1
07030	Toluene	108-88-3	.86.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	28.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	91.	1.	ug/l	1,

State of New Jersey Lab Certification No. PA011

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CAT		Analysis				
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00212	Total Dissolved Solids	EPA 160.1	1	03/02/2006 08:05	Yolunder Y Bunch	1
00221	Ammonia Nitrogen	EPA 350.2	1	03/03/2006 16:00	Luz M Groff	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	03/03/2006 17:26	Laura A Lockard	ī
08238	BTEX (EPA 602)	EPA 602	1	03/07/2006 20:18	K. Robert Caulfeild- James	1
00553	Base Neutrals	EPA 625	1	03/06/2006 21:39	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	03/02/2006 08:15	Zachary S Dennis	1



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Lancaster Laboratories Sample No. WW 4718880

MW-19-6 Duplicate Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 11:32

by EV

Account Number: 09322

Submitted: 02/28/2006 17:40

RMT, Inc. PO Box 8923

Reported: 03/14/2006 at 12:00

Madison WI 53708-8923

Discard: 04/14/2006

196--

SDG#: LEC53-02DUP

CAT		•	As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00307	Heterotrophic Plate Count	n.a.	19.	1.	cfu/ml	n.a.
·	This result is an estimated cou	nt. At least	one plate used t	o calculate		
	the result is outside the estab colony forming units (cfu) per		g range of 30 to	300		
	The plating was performed by Ma	rlaina Kohler	on 030106 at 075	0.		
00206	Total Suspended Solids	n.a.	N.D.	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	632.	19.4	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	1.9	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.20	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	36.6	1.5	mg/l	5

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All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00307	Heterotrophic Plate Count	SM20 9215 B	1.	03/03/2006 08:00	Marlaina E Kohler	n.a.
00206	Total Suspended Solids	EPA 160.2	1	03/02/2006 11:53	Yolunder Y Bunch	1
00212	Total Dissolved Solids	EPA 160.1	1	03/02/2006 08:05	Yolunder Y Bunch	1
00219	Nitrite Nitrogen	EPA 353.2	.1	02/28/2006 21:49	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	03/07/2006 20:37	Venia B McFadden	1.
00221	Ammonia Nitrogen	EPA 350.2	1	03/03/2006 16:00	Luz M Groff	
00227	Total Phosphorus as P (water)	EPA 365.1	1	03/06/2006 19:43	Venia B McFadden	ī
00228	Sulfate	EPA 300.0	1	03/10/2006 19:39	Nicole M Kepley	5
08263	Total Phos as P Prep (water)	EPA 365.1	1	03/02/2006 12:40	Nancy J Shoop	1



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#### Lancaster Laboratories Sample No. WW 4718881

DUP-02 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006

by EV

Account Number: 09322

Submitted: 02/28/2006 17:40

Reported: 03/14/2006 at 12:00

Discard: 04/14/2006

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DP02- SDG#: LEC53-03FD

				As Received		•
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00307	Heterotrophic Plate Count	n.a.	10.	1.	cfu/ml	n.a.
	This result is an estimated cou					
	the result is outside the estal		ng range of 30 to	300		
	colony forming units (cfu) per	dilution.				
	mba - Tandam			_		
00206	The plating was performed by Ma Total Suspended Solids					
00208	Total Dissolved Solids	n.a.	36.8	3.0	mg/l	1
00212		n.a.	628.	19.4	mg/l	.1
	Nitrite Nitrogen	14797-65-0	0.050	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.20	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	0.30	0.080	mg/l	1 .
00228	Sulfate	14808-79-8	1.6 J	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					•
0.200	Toracric meanspace mydrocarbon			•		
07106	Methane	74-82-8	10,000.	500.	ug/l	250
07107	Ethane	74-84-0	11.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	840.	.3.0	ug/l	5
07029	Benzene	71-43-2	7.5	0.2	ug/l	1
07030	Toluene	108-88-3	0.3	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	5.0	0.2	ug/1 ug/1	1
					<b>4</b> 5/ <b>2</b>	-
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	0.9	ug/l	1
				0.3	49/1	1

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Lancaster Laboratories Sample No. WW 4718881

DUP-02 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006

by EV

Account Number: 09322

Submitted: 02/28/2006 17:40 Reported: 03/14/2006 at 12:00

Discard: 04/14/2006

RMT, Inc. PO Box 8923

Madison WI 53708-8923

DP02- SDG#: LEC53-03FD

	*	Habotacor y	CILLO	111010		
CAT		<del>-</del>		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	<b>Factor</b>
00307	Heterotrophic Plate Count	SM20 9215 B	1	03/03/2006 08:00	Marlaina E Kohler	n.a.
00206	Total Suspended Solids	EPA 160.2	1	03/02/2006 11:53	Yolunder Y Bunch	1
00212	Total Dissolved Solids	EPA 160.1	1	03/02/2006 08:05	Yolunder Y Bunch	1
00219	Nitrite Nitrogen	EPA 353.2	1	02/28/2006 21:50	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	03/07/2006 20:27	Venia B McFadden	1
00221	Ammonia Nitrogen	EPA 350.2	1	03/03/2006 16:00	Luz M Groff	1 .
00227	Total Phosphorus as P (water)	EPA 365.1	1	03/06/2006 19:44	Venia B McFadden	1
00228	Sulfate	EPA 300.0	1	03/10/2006 20:19	Nicole M Kepley	~ <b>5</b>
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	03/03/2006 17:42	Laura A Lockard	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	l 1	03/06/2006 12:12	Laura A Lockard	250
08238	BTEX (EPA 602)	EPA 602	1	03/07/2006 21:25	K. Robert Caulfeild- James	5
08238	BTEX (EPA 602)	EPA 602	1	03/07/2006 22:32	K. Robert Caulfeild- James	1
00553	Base Neutrals	EPA 625	1	03/06/2006 23:19	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	03/02/2006 08:15	Zachary S Dennis	1
08263	Total Phos as P Prep	EPA 365.1	1 .	03/02/2006 12:40	Nancy J Shoop	ِ <b>1</b>



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Lancaster Laboratories Sample No. 4718882

MW-19-5 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 13:16

Account Number: 09322

Submitted: 02/28/2006 17:40 Reported: 03/14/2006 at 12:00

RMT, Inc. PO Box 8923

Madison WI 53708-8923

Discard: 04/14/2006

195--SDG#: LEC53-04

			* .	As Received		
CAT		4.	As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00307	Heterotrophic Plate Count	n.a.	12.	1.	cfu/ml	n.a.
	This result is an estimated cou	int. At least	one plate used t	o calculate		
	the result is outside the estab	olished counting	ng range of 30 to	300		
	colony forming units (cfu) per	dilution.				
			•			
	The plating was performed by Ma	arlaina Kohler	on 030106 at 075	50.		
•						
	There was spreader-type colony			plates used in the	ne	
00005	enumeration, which may have inf		-		4-	•
00206 00212	Total Suspended Solids Total Dissolved Solids	n.a.	N.D.	3.0	mg/l	1
00212	Nitrite Nitrogen	n.a.	287.	9.7	mg/l	1
00219	Nitrate Nitrogen	14797-65-0	N.D.	0.015	mg/l	1 .
00220	Ammonia Nitrogen	14797-55-8	0.097 J	0.040	mg/l	1
00221	Total Phosphorus as P (water)	7664-41-7	N.D.	0.20	mg/l	1
00227	Sulfate (water)	7723-14-0	N.D.	0.080	mg/l	1
00226	Surrace	14808-79-8	11.2	1.5	mg/l	· 5
07105	Volatile Headspace Hydrocarbon		•	1		•
07209	volutite headspace mydrocarbon					
07106	Methane	74-82-8	290.	10.	ug/l	5
07107	Éthane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethené	74-85-1	N.D.	1.0	ug/l	1.
07109	Propane	74-98-6	N.D.	1.0	ug/l	i
	<del>-</del>				-5/	-
08238	BTEX (EPA 602)	· ·				
05538	Total Xylenes	1330-20-7	1,500.	60.	ug/l	100
07029	Benzene	71-43-2	Ņ.D.	20.	ug/l	100
07030	Toluene	108-88-3	19,000.	20.	ug/l	100
07031	Ethylbenzene	100-41-4	290.	20.	ug/l	100
00553	Base Neutrals					
00669	bis (2-Ethylhexyl) phthalate	117-81-7	Ŋ.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011



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Page 2 of 2

Lancaster Laboratories Sample No. WW 4718882

MW-19-5 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 13:16

by EV

Account Number: 09322

Submitted: 02/28/2006 17:40

Reported: 03/14/2006 at 12:00

Discard: 04/14/2006

RMT, Inc. PO Box 8923

Madison WI 53708-8923

195--SDG#: LEC53-04

		<b>Haboracory</b>	CITTO	11TCTC		
CAT	•	·		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00307	Heterotrophic Plate Count	SM20 9215 B	1	03/03/2006 08:00	Marlaina E Kohler	n.a.
00206	Total Suspended Solids	EPA 160.2	ı	03/02/2006 11:53	Yolunder Y Bunch	1
00212	Total Dissolved Solids	EPA 160.1	1	03/02/2006 08:05	Yolunder Y Bunch	1
00219	Nitrite Nitrogen	EPA 353.2	1	02/28/2006 21:51	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	03/07/2006 20:28	Venia B McFadden	1
00221	Ammonia Nitrogen	EPA 350.2	1	03/03/2006 16:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	03/06/2006 19:46	Venia B McFadden	1
00228	Sulfate	EPA 300.0	1	03/10/2006 20:32	Nicole M Kepley	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1 .	03/03/2006 17:58	Laura A Lockard	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	03/06/2006 12:28	Laura A Lockard	5
08238	BTEX (EPA 602)	EPA 602	1	03/08/2006 01:52	K. Robert Caulfeild- James	100
00553	Base Neutrals	EPA 625	1	03/07/2006 00:08	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1 .	03/02/2006 08:15	Zachary S Dennis	1
08263	Total Phos as P Prep	EPA 365.1	. 1	03/02/2006 12:40	Nancy J Shoop	1



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Lancaster Laboratories Sample No. 4718883

ATM-01 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006

Account Number: 09322

Submitted: 02/28/2006 17:40 Reported: 03/14/2006 at 12:00

SDG#: LEC53-05AB

RMT, Inc. PO Box 8923

Madison WI 53708-8923

Discard: 04/14/2006

1ATM-

		*	•	As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00307	Heterotrophic Plate Count	n.a.	2.	1.	cfu/ml	n.a.
	This result is an estimated cou	int. At least	one plate used t	o calculate		
	the result is outside the estab	olished counting	ng range of 30 to	300		
	colony forming units (cfu) per	dilution.				
	The plating was performed by Ma	arlaina Kohler	on 030106 at 075	50.		
00206	Total Suspended Solids	n.a.	N.D.	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	N.D.	9.7	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.20	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	.0.080	mg/l	1
00228	Sulfate	14808-79-8	N.D.	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.D.	.20	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011



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Lancaster Laboratories Sample No. WW 4718883

ATM-01 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006

by EV

Account Number: 09322

Submitted: 02/28/2006 17:40 Reported: 03/14/2006 at 12:00

Discard: 04/14/2006

RMT, Inc. PO Box 8923

Madison WI 53708-8923

1ATM- SDG#: LEC53-05AB

		<b>Dascincer</b>	CILLO	111010	,	
CAT		<del>-</del>		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00307	Heterotrophic Plate Count	SM20 9215 B	1	03/03/2006 08:00	Marlaina E Kohler	n.a.
00206	Total Suspended Solids	EPA 160.2	1	03/02/2006 11:53	Yolunder Y Bunch	1
00212	Total Dissolved Solids	EPA 160.1	1	03/02/2006 08:05	Yolunder Y Bunch	1
00219	Nitrite Nitrogen	EPA 353.2	1	02/28/2006 21:52	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	03/07/2006 20:29	Venia B McFadden	1
00221	Ammonia Nitrogen	EPA 350.2	1	03/03/2006 16:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	03/06/2006 19:47	Venia B McFadden	1
00228	Sulfate	EPA 300.0	1	03/10/2006 20:46	Nicole M Kepley	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	03/03/2006 18:14	Laura A Lockard	1
08238	BTEX (EPA 602)	EPA 602	1	03/07/2006 18:04	K. Robert Caulfeild- James	1
0.0553	Base Neutrals	EPA 625	1	03/07/2006 00:59	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	03/02/2006 08:15	Zachary S Dennis	1
08,263	Total Phos as P Prep (water)	EPA 365.1	1	03/02/2006 12:40	Nancy J Shoop	1



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Lancaster Laboratories Sample No. 4718884

Trip Blank Water Sample L.E. Carpenter, NJ

Collected: n.a.

Submitted: 02/28/2006 17:40

Reported: 03/14/2006 at 12:00 Discard: 04/14/2006

Account Number: 09322

RMT, Inc.

PO Box 8923

Madison WI 53708-8923

TBLEC SDG#: LEC53-06TB

CAT		•	As Received	As Received Method	•	Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
08238	BTEX (EPA 602)		•		•	
0.5538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	Ń.D.	0.2	ug/l	1

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

			CITT O	111010		
CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
08238	BTEX (EPA 602)	EPA 602	1	03/07/2006 17:31	K. Robert Caulfeild-	1
	*				James	



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#### Quality Control Summary

Client Name: RMT, Inc.

Reported: 03/14/06 at 12:00 PM

Group Number: 979764

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

#### Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 06059105102B Nitrite Nitrogen	Sample N.D.	number(s): 0.015		18878,47 101	18880-4718	3883 90-110		
Batch number: 06060WAG625 bis(2-Ethylhexyl)phthalate	Sample N.D.	number(s):	4718876-47 ug/l	18879, <b>47</b> 90	18881-4718	3883 68-111		
Batch number: 06061020601B Total Suspended Solids	Sample N.D.	number(s):	4718876-47 mg/l	18877,47 85	18880-4718	3883 56-128		
Batch number: 06061021201A Total Dissolved Solids	Sample N.D.	number(s):	4718876-47 mg/l	718883 92		80-120		
Batch number: 06061109101A Total Phosphorus as P (water)		number(s): 0.080		18878,47 108	18880-4718	3883 89-110		
Batch number: 060620018A Methane Ethane Ethene Propane	Sample N.D. N.D. N.D. N.D.	number(s): 2.0 1.0 1.0	4718876-47 ug/l ug/l ug/l ug/l	102 102	18881-4718	80-120 80-120 80-120 80-120 73-125		
Batch number: 06062022101A Ammonia Nitrogen	Sample N.D.	number(s): 0.20	4718876-47 mg/l	18883 96		91-100		
Batch number: 06066106102A Nitrate Nitrogen	Sample N.D.	number(s):		18878,47 104	18880-4718	3883 89-110		
Batch number: 06066A36A Total Xylenes Benzene Toluene Ethylbenzene	N.D. N.D. N.D. N.D.	0.2	ug/l ug/l ug/l ug/l	97 98 97 98	101 102 101 102	82-120 86-119 82-119 81-119	4 3 4 4	30 30 30 30
Batch number: 06069130101A Sulfate	Sample N.D.	number(s): 0.30	4718876-47 mg/l	18878,47 100	18880-4718	8883 89-110		

#### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD
Batch number: 06059105102B Nitrite Nitrogen	Sample 105	number	(s): 4718876 90-110	-47188	78,4718	880-4718883 N.D.	UNSPK:	4718877 BKG: 151* (1)	4718877 20

#### \*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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#### Quality Control Summary

Client Name: RMT, Inc.

Group Number: 979764

Reported: 03/14/06 at 12:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	ms %rec	MSD %REC	MS/MSD Limits	RPD	RPD <u>MAX</u>	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 06060WAG625 bis(2-Ethylhexyl)phthalate	Sample 85	number 87	(s): 4718876 64-113	-471881 2	79,4718 30	881-4718883	UNSPK: 4	718877	
Batch number: 06061020601B Total Suspended Solids	Sample	number	(s): 4718876	-47188	77,4718	880-4718883 4.4 J	BKG: 47	18877 200* (1)	20
Batch number: 06061021201A Total Dissolved Solids	Sample 105	number	(s): 4718876 60-140	-4:71888 0	3 UNSP 5	K: 4718877   634.	BKG: 4718	377 0	` 5
Batch number: 06061109101A Total Phosphorus as P (water)	Sample 98	number	(s): 4718876 90-110	-471887	78,4718	880-4718883 N.D.	UNSPK: 4'	718877 BKG: 4	718877 3
Batch number: 060620018A Methane Ethane Ethene Propane	Sample 102 98 105 107	number 83 97 105 107	(s): 4718876 63-124 63-127 69-126 56-136	-471881 11 2 0	79,4718 20 20 20 20	881-4718883	UNSPK: 4	718877	
Batch number: 06062022101A Ammonia Nitrogen	Sample 49*	number	(s): 4718876 64-128	-471888 2	33 UNSP	K: 4718877 I	BKG: 47188 N.D.	377 0 (1)	2
Batch number: 06066106102A Nitrate Nitrogen	Sample 109	number	(s): 4718876 90-110	-471887	78,4718	880-4718883 1.8	UNSPK: 47	718877 BKG: 4	718877 2
Batch number: 06066A36A Total Xylenes Benzene Toluene Ethylbenzene	Sample 103 106 89 104	number ( 109 110 106 111	(s): 4718876 84-131 78-131 78-129 75-133	-471887 4 4 4 5	79,4718 30 30 30 30 30	881-4718884	UNSPK: 4	718877	
Batch number: 06069130101A Sulfate	Sample 104	number	(s): 4718876 90-110	-471887	8,4718	880-4718883 36.6	UNSPK: 47	718877 BKG: 4	718877 3

#### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Base Neutrals Batch number: 06060WAG625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14	
4718876	80	88	89	<del></del>
4718877	73	85	82	
4718878	82	87	78	
4718879	87	88	86	
4718881	80	87	87	
4718882	78	88	80	
4718883	75	84	88	

#### \*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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#### Quality Control Summary

	Name: RMT, Inc. d: 03/14/06 at	12.00 DM	Gro	oup Number	: 97976 <del>4</del>	
Reported	1: 03/14/06 at.		Surrogate	Ouality	Control	
Blank	82	87	<b>3</b>	83		
LCS	88	91		95	٠.	
MS	82	87		78		
MSD .	87	88		86		
Limits:	48-117	62-111		33-155		
Analysis 1	Name: Volatile Head	ispace Hydrocarbo	n.			
Batch numl	ber: 060620018A				•	•
	Propene	:			4	
4718876	98	· · · · · · · · · · · · · · · · · · ·			<del> </del>	
4718877	100					
4718878	97					
4718879	97	•				
4718881	92					
4718882	94					
4718883	97					•
Blank	110					
LCS	111					
MS	97					
MSD	97					
Limits:	48-132					
Analysis 1	Name: BTEX (EPA 602			•		
Batch numi	ber: 06066A36A					,
	Trifluorotoluene	9-P				
4718876	86					
4718877	97					
4718878	97					
4718879	97					
4718881	86					
4718882	100					
4718883	98					
4718884	99					
Blank	99					
LCS	98					
LCSD	97				•	
MS	97					
MSD	97					
Timite	60-120					

#### \*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

### Analysis Requesi, Environmental Services Chain of C. Jody

Lancaster Laboratories	Acct.#	322 c	roup#		76	<u> </u>	orles c ample	se only	7/8	387	6-8	7	7 (	CO	<b>C</b> # 0	114711	n
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lent: RMT Inc		#:		2.49		4	QW. SV	(5)								For Lab Use	Only
roject Name##: <u>6587,  </u> 8		ID #:		900					7	6					/	FSC: SCR#: 24	564
oject Manager: N. Clevett		k:		- 1				ر ا	4	Vitragen			अ.म.ए		$\vdash$	· · · · · · · · · · · · · · · · · · ·	(6
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		e #:		-				3	35	1		_>		ቻ			
me of state where samples were collected:	<u> </u>	· 	3					ا اح	<del>.</del>	1/0		×		3			
								3	ž .	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	HRC	7	- 1				
								10ta	到口	4	Ħ	<b>RETEX</b>	-Z	14	Remarks		
MW-19-7	2/28	0948	K		K		6	٧ ٪	٦,	7	v	v	XO	,   _			
MW-19-6	0,700	1132	N N		N			X X			^ ¥	$\Rightarrow$		;			
MW-19-6 MS/MSD		11382	X	<u> </u>	N N	1			. K	X	$\overrightarrow{J}$	-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-	<del></del>		
DUP-02			1		N			XX	1	1	<b>√</b>	<b>\</b>	^ ×		<del>                                     </del>		
MW-19-5	1	1316	V		X		5 (	<del></del>	N X	X	X	\ \ \	<b>☆</b>		<del>                                     </del>	<del></del>	
Atm-01	2/28	1350			V		1.4	XX	1	7						100	
TB	2/80	+300			1		_	-		14	X		X	<u> </u>	Somplec	21550	-
					1	l l'	2		-	<del>                                     </del>		X		+		· · · · · · · · · · · · · · · · · · ·	
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Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

### Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D. TNTC	none detected Too Numerous To Count	BMQL MPN	Below Minimum Quantitation Level Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
uġ	microgram(s)	Ĭ	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than

ppm parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**Inorganic Qualifiers** 

ppb parts per billion

Dry weight
basis
Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

#### **Organic Qualifiers**

A	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	Ε	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quatitated on a diluted sample	N	Spike amount not within control limits
E	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
	the instrument		for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
P	Concentration difference between primary and	*	Duplicate analysis not within control limits
	confirmation columns >25%	* <b>+</b>	Correlation coefficient for MSA < 0.995
Ū	Compound was not detected		
X,Y,Z	Defined in case narrative		·

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.



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#### **ANALYTICAL RESULTS**

Prepared for:

RMT, Inc. PO Box 8923 Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

#### **SAMPLE GROUP**

The sample group for this submittal is 979787. Samples arrived at the laboratory on Tuesday, February 28, 2006. The PO# for this group is 6527.18.

Client Description	Lancaster Labs Number
MW-19-7 Filtered Grab Water Sample	4718977
MW-19-6 Filtered Unspiked Grab Water Sample	4718978
MW-19-6 Filtered Matrix_Spike Grab Water Sample	4718979
MW-19-6 Filtered Matrix_Spike_Duplicate Grab Water	4718980
MW-19-6 Filtered Duplicate Grab Water Sample	4718981
DUP-02 Filtered Grab Water Sample	4718982
MW-19-5 Filtered Grab Water Sample	4718983
ATM-01 Filtered Grab Water Sample	4718984

#### **METHODOLOGY**

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO

RMT, Inc.

1 COPY TO

Data Package Group

Attn: Nicholas J. Clevett



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-658-2300 Fex: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

Max E. Snavely Senior Specialist



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Page 1 of 1

Lancaster Laboratories Sample No. 4718977

MW-19-7 Filtered Grab Water Sample

L.E. Carpenter, NJ

Collected: 02/28/2006 09:48

Account Number: 09322

Submitted: 02/28/2006 17:40 Reported: 03/08/2006 at 11:12

Discard: 04/08/2006

RMT, Inc. PO Box 8923

Madison WI 53708-8923

F-197 SDG#: LEC55-01

As Received

As Received

Method

Dilution

CAT No.

Analysis Name

CAS Number

Result

Detection Limit

Units

07055 Lead

0.0084

Factor

7439-92-1

mg/l

State of New Jersey Lab Certification No. PA011 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

		Haboracory	CIII O	HICEC.		
CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07055	Lead	SW-846 6010B	1	03/06/2006 23:15	John P Hook	1
01848	WW SW846 ICP Digest (tot	SW-846 3005A	1	03/06/2006 02:25	Helen L Schaeffer	1



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Page 1 of 1

Lancaster Laboratories Sample No. 4718978

MW-19-6 Filtered Unspiked Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 11:32

by EV

Account Number: 09322

Submitted: 02/28/2006 17:40 Reported: 03/08/2006 at 11:12

Discard: 04/08/2006

RMT, Inc. PO Box 8923

Madison WI 53708-8923

F-196 SDG#: LEC55-02BKG

CAT

As Received

No. Analysis Name CAS Number Result

As Received Method Detection Limit

Dilution Units Factor

0.0084

07055

7439-92-1

mg/1

7

State of New Jersey Lab Certification No. PA011 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT Analysis Dilution No. Analysis Name Method Trial# Date and Time Analyat Factor 07055 Lead SW-846 6010B John P Hook 03/06/2006 21:59 WW SW846 ICP Digest (tot 01848 SW-846 3005A 03/06/2006 02:25 Helen L Schaeffer rec)



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Page 1 of 1

Lancaster Laboratories Sample No. 4718979

MW-19-6 Filtered Matrix Spike Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 11:32

by EV

Account Number: 09322

Submitted: 02/28/2006 17:40

Reported: 03/08/2006 at 11:12

Discard: 04/08/2006

RMT, Inc. PO Box 8923

Madison WI 53708-8923

F-196 SDG#: LEC55-02MS

As Received

CAT No.

Analysis Name

As Received CAS Number Result

Method Detection Dilution

Factor

Limit 0.0084

1

07055 Lead 7439-92-1

0.130

mg/l

Units

State of New Jersey Lab Certification No. PA011 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

			4			
CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07055	Lead	SW-846 6010B	1	03/06/2006 22:13	John P Hook	1
01848	WW SW846 ICP Digest (tot	SW-846 3005A	1	03/06/2006 02:25	Helen L Schaeffer	1
	rec)					



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Page 1 of 1

Lancaster Laboratories Sample No.

MW-19-6 Filtered Matrix Spike Duplicate Grab Water L.E. Carpenter, NJ

Collected: 02/28/2006 11:32

Account Number: 09322

Submitted: 02/28/2006 17:40 Reported: 03/08/2006 at 11:12

Discard: 04/08/2006

RMT, Inc. PO Box 8923

Madison WI 53708-8923

F-196 SDG#: LEC55-02MSD

As Received

CAT As Received No. Analysis Name CAS Number

Result

Method Detection Limit

Dilution

Units

Factor

07055

7439-92-1

0.0084

mg/l

1

State of New Jersey Lab Certification No. PA011 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT			_	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07055	Lead	SW-846 6010B	1	03/06/2006 22:18	John P Hook	1
01848	WW SW846 ICP Digest (tot	SW-846 3005A	1	03/06/2006 02:25	Helen L Schaeffer	1
	rec)			,,		-



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Page 1 of 1

Lancaster Laboratories Sample No. 4718981

MW-19-6 Filtered Duplicate Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 11:32

by EV

Account Number: 09322

Submitted: 02/28/2006 17:40

Reported: 03/08/2006 at 11:12

Discard: 04/08/2006

RMT, Inc. PO Box 8923

Madison WI 53708-8923

SDG#: LEC55-02DUP F-196

CAT

As Received

As Received Method

Dilution

No.

Analysis Name

CAS Number

Detection

Units Factor

07055

Lead

7439-92-1

0..0084

mg/l

State of New Jersey Lab Certification No. PA011 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

		Haberacery	CILLO	111016		
CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07055	Lead	SW-846 6010B	1	03/06/2006 22:08	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	03/06/2006 02:25	Helen L Schaeffer	1



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Page 1 of 1

Lancaster Laboratories Sample No. 4718982

DUP-02 Filtered Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006

Account Number: 09322

Submitted: 02/28/2006 17:40 Reported: 03/08/2006 at 11:12

RMT, Inc. PO Box 8923

Discard: 04/08/2006

Madison WI 53708-8923

F-DP2 SDG#: LEC55-03FD

CAT

As Received

Dilution

No.

Analysis Name

CAS Number

As Received Result

Method Detection Limit

Units

**Factor** 

07055

Lead

7439-92-1

0.0084

mg/l

State of New Jersey Lab Certification No. PA011 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

		Daboratory	CILLO	HIGIE		
CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07055	Lead	SW-846 6010B	1	03/06/2006 23:19	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	03/06/2006 02:25	Helen L Schaeffer	1



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Page 1 of 1

4718983 Lancaster Laboratories Sample No.

MW-19-5 Filtered Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 13:16

by EV

Account Number: 09322

Submitted: 02/28/2006 17:40 Reported: 03/08/2006 at 11:12

Discard: 04/08/2006

RMT, Inc. PO Box 8923

Madison WI 53708-8923

F-195

SDG#: LEC55-04

As Received

CAT No.

Analysis Name

As Received CAS Number Result

Method Detection

Dilution

N.D.

Limit

Factor

0.7055

Lead

7439-92-1

0.0084

Units mg/1

State of New Jersey Lab Certification No. PA011 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT Analysis Dilution No. Analysis Name Method Date and Time Analyst Factor 07055 Lead SW-846 6010B 03/06/2006 23:24 John P Hook 1 WW SW846 ICP Digest (tot 01848 03/06/2006 02:25 SW-846 3005A Helen L Schaeffer rec)



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Page 1 of 1

Lancaster Laboratories Sample No. 4718984

ATM-01 Filtered Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006

by EV

Account Number: 09322

Submitted: 02/28/2006 17:40

RMT, Inc. PO Box 8923

Reported: 03/08/2006 at 11:12

Madison WI 53708-8923

Discard: 04/08/2006

FATM1 SDG#: LEC55-05AB

As Received

CAT

Analysis Name

As Received Result

Method Detection

Dilution Units

Ño. 07055

Lead

CAS Number

Limit

**Pactor** 

7439-92-1

N.D.

0.0084

mg/1

State of New Jersey Lab Certification No. PA011 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT Analysis Dilution No. Analysis Name Method Date and Time Analyst Factor 07055 Lead SW-846 6010B 03/06/2006 23:29 John P Hook 1 01848 WW SW846 ICP Digest (tot SW-846 3005A 03/06/2006 02:25 Helen L Schaeffer 1



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Page 1 of 1

#### Quality Control Summary

Client Name: RMT, Inc.

Reported: 03/08/06 at 11:12 AM

Group Number: 979787

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the

#### Laboratory Compliance Quality Control

Blank Blank Report LCS LCSD LCS/LCSD Analysis Name Result MDL <u>Units</u> **%REC** \*REC <u>Limita</u> RPD RPD Max

Batch number: 060651848002 Lead

Sample number(s): 4718977-4718984 N.D.

0.0084 mg/l

80-120

Sample Matrix Quality Control Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

MSD MS/MSD BKG DUP DUP Dup RPD Analysis Name RPD <u>MAX</u> Conc Conc RPD

Batch number: 060651848002 Lead

Sample number(s): 4718977-4718984 UNSPK: 4718978 BKG: 4718978

110 75-125 108 20 N.D. N.D. -94 (1) 20

#### \*- Outside of specification

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

<sup>(2)</sup> The background result was more than four times the spike added.

# Analysis Request, snvironmental Services Chain of Cus. 3dy

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Client: RMT Inc	Acct. #			;	4		(5)									Use O	inly
Project Name/#: 6507, 18	PWSID	)#:					Tu	lacksquare	2					/	FSC:_ SCR#:	UK	164
Project Manager: N. Clevett	 PO#					Q	[		4	、		뵘		<i>-</i>	<del></del>		<b>6</b>
Sampler: 6. Vinck		#:		•		Υ.		1	Witnesen		S	7		/			
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MW-19-5		1316	<del>V</del>	K	18		X	X				XX	+-		·····		
Atm-01	2/28	1350		$\frac{1}{x}$	15	义	X	人	1		$\overline{\cdot}$	XX	<del>                                     </del>	C 1	1750		·
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### Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D. TNTC IU umhos/cm	none detected Too Numerous To Count International Units micromhos/cm	BMQL MPN CP Units NTU	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units
С	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	Ĭ	liter(s)
mi	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
  - ppb parts per billion
- Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

#### **Organic Qualifiers**

#### **Inorganic Qualifiers**

Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quatitated on a diluted sample	N	Spike amount not within control limits
E	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
	the instrument		for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
P	Concentration difference between primary and	*	Duplicate analysis not within control limits
	confirmation columns >25%	+	Correlation coefficient for MSA < 0.995
U	Compound was not detected		
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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#### ANALYTICAL RESULTS

Prepared for:

RMT, Inc. PO Box 8923 Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

#### **SAMPLE GROUP**

The sample group for this submittal is 979842. Samples arrived at the laboratory on Wednesday, March 01, 2006. The PO# for this group is 6527.18.

Client Description	Lancaster Labs Number
MW-19 Grab Water Sample	4719360
MW-19-4 Grab Water Sample	4719361
RB-01 Grab Water Sample	4719362
TB Water Sample	4719363

#### **METHODOLOGY**

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO 1 COPY TO

RMT, Inc.

Data Package Group

Attn: Nicholas J. Clevett



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Questions? Contact your Client Services Representative Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

Michele J. Smith

Group Leader



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Lancaster Laboratories Sample No. 4719360

MW-19 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 15:26

by EV

Account Number: 09322

Submitted: 03/01/2006 09:00 Reported: 03/14/2006 at 15:34 Discard: 04/14/2006

RMT, Inc. PO Box 8923

Madison WI 53708-8923

MW-19 SDG#: LEC53-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	25.	1.	cfu/ml	n.a.
	This result is an estimated couthe result is outside the estal					
	colony forming units (cfu) per	dilution.	•			
	The sample was plated by Marla	ina Kohler on 3	-1-06 by 0958.			
00206	Total Suspended Solids	ņ.a.	35.6	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	559.	19.4	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	0.025 J	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.20	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	3.3 J	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon		•	•		
07106	Methane	74-82-8	140.	2.0	ug/1	1
07107	Ethane	74-84-0	1.1 J	1.0	uq/l	1
07108	Ethene	74-85-1	2.2 J	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					,
05538	Total Xylenes	1330-20-7	4,900.	150.	ug/l	250
07029	Bénzene	71-43-2	N.D.	50.	ug/l	250
07030	Toluene	108-88-3	28,000.	50.	ug/l	250
07031	Ethylbenzene	100-41-4	880.	50.	ug/l	250
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	3. J	1.	ug/l	1:

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



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Lancaster Laboratories Sample No. WW 4719360

MW-19 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 15:26

by EV

Account Number: 09322

Submitted: 03/01/2006 09:00 Reported: 03/14/2006 at 15:34

RMT, Inc. PO Box 8923

Discard: 04/14/2006

Madison WI 53708-8923

MW-19 SDG#: LEC53-07

		Chro	

		парогасогу	CILLO	TITCIE	· ·	
CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00307	Heterotrophic Plate Count	SM20 9215 B	1	03/03/2006 08:30	Marlaina E Kohler	n.a.
00206	Total Suspended Solids	EPA 160.2	. 1	03/03/2006 11:34	Susan A Engle	1.
00212	Total Dissolved Solids	EPA 160.1	1	03/02/2006 08:05	Yolunder Y Bunch	1
00219	Nitrite Nitrogen	EPA 353.2	1	03/02/2006 08:55	Courtney A Shoff	ī
00220	Nitrate Nitrogen	EPA 353.2	1	03/07/2006 20:38	Venia B McFadden	1 .
00221	Ammonia Nitrogen	EPA 350.2	1	03/03/2006 16:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	03/06/2006 19:48	Venia B McFadden	1
00228	Sulfate	EPA 300.0	1	03/10/2006 20:59	Nicole M Kepley	.5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	03/03/2006 20:23	Laura A Lockard	1
08238	BTEX (EPA 602)	EPA 602	1	03/08/2006 02:25	K. Robert Caulfeild- James	250
00553	Base Neutrals	EPA 625	1	03/06/2006 15:50	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	03/03/2006 02:45	Zachary S Dennis	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	03/02/2006 12:40	Nancy J Shoop	ī



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Lancaster Laboratories Sample No. WW 4719361

MW-19-4 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 17:02

by EV

Account Number: 09322

Submitted: 03/01/2006 09:00

SDG#: LEC53-08

RMT, Inc. PO Box 8923

Reported: 03/14/2006 at 15:34

Madison WI 53708-8923

Discard: 04/14/2006

MW194

				As Received		*
CAT	•		As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00307	Heterotrophic Plate Count	n.a.	12.	1.	cfu/ml	n.a.
	This result is an estimated con	unt. At least	one plate used t	co calculate		
	the result is outside the estal		ng range of 30 to	300		
	colony forming units (cfu) per	dilution.				
	The sample was plated by Marla		· -			
00206	Total Suspended Solids	n.a.	N.D.	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	730.	19.4	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	2.4	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.20	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	37.4	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon	÷			•	
07106	Methane	74-82-8	N.D.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/1	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)			•		
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	2.2	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
					- <b>-</b> -	_
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

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Lancaster Laboratories Sample No. WW 4719361

MW-19-4 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 17:02

by EV

Account Number: 09322

Submitted: 03/01/2006 09:00

Reported: 03/14/2006 at 15:34

SDG#: LEC53-08

RMT, Inc. PO Box 8923

Madison WI 53708-8923

Discard: 04/14/2006

MW194

		<u> </u>	CILLO	TITOTE		
CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00307	Heterotrophic Plate Count	SM20 9215 B	1	03/03/2006 08:30	Marlaina E Kohler	n.a.
00206	Total Suspended Solids	EPA 160.2	1	03/03/2006 11:34	Susan A Engle	1
00212	Total Dissolved Solids	EPA 160.1	1	03/02/2006 08:05	Yolunder Y Bunch	1
00219	Nitrite Nitrogen	EPA 353.2	1	03/02/2006 08:56	Courtney A Shoff	1
00220	Nitrate Nitrogen	EPA 353.2	1	03/07/2006 20:42	Venia B McFadden	1
00221	Ammonia Nitrogen	EPA 350.2	1	03/03/2006 16:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	03/06/2006 19:49	Venia B McFadden	1
00228	Sulfate	EPA 300.0	1	03/10/2006 21:39	Nicole M Kepley	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1 1	03/03/2006 20:39	Laura A Lockard	1
08238	BTEX (EPA 602)	EPA 602	1	03/08/2006 01:18	K. Robert Caulfeild- James	1
00553	Base Neutrals	EPA 625	1	03/06/2006 16:40	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	03/03/2006 02:45	Zachary S Dennis	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	03/02/2006 12:40	Nancy J Shoop	1



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Lancaster Laboratories Sample No. WW 4719362

RB-01 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 18:10

Account Number: 09322

Submitted: 03/01/2006 09:00 Reported: 03/14/2006 at 15:34

RMT, Inc. PO Box 8923

Discard: 04/14/2006

Madison WI 53708-8923

RB01-SDG#: LEC53-09RB

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00307	Heterotrophic Plate Count	n.a.	N.D.	1.	cfu/ml	n.a.
	. This result is an estimated cou	int. At least	one plate used t	o calculate		
	the result is outside the estab	lished countir	ng range of 30 to	300		
	colony forming units (cfu) per	dilution.				•
	The sample was plated by Marlai	ina Kohler on 3	8-1-06 by 0958.			
00206	Total Suspended Solids	n.a.	N.D.	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	N.D.	9.7	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.20	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	N.D.	0.30	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.Ď.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/1	1
			. 1. 1		•	
08238	BTEX (EPA 602)		,			
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	I
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1 ·

State of New Jersey Lab Certification No. PA011

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Lancaster Laboratories Sample No. WW 4719362

RB-01 Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 18:10

by EV

Account Number: 09322

Submitted: 03/01/2006 09:00 Reported: 03/14/2006 at 15:34

RMT, Inc. PO Box 8923

Discard: 04/14/2006

Madison WI 53708-8923

RB01-SDG#: LEC53-09RB

- 1			
1.200	ratory	Chron	17010
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CAT		·		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00307	Heterotrophic Plate Count	SM20 9215 B	1	03/03/2006 08:30	Marlaina E Kohler	n.a.
00206	Total Suspended Solids	EPA 160.2	ļ	03/03/2006 11:34	Susan A Engle	.1
00212	Total Dissolved Solids	EPA 160.1	1	03/02/2006 08:05	Yolunder Y Bunch	1.
00219	Nitrite Nitrogen	EPA 353.2	1	03/02/2006 08:57	Courtney A Shoff	1
00220	Nitrate Ņitrogen	EPA 353.2	1	03/07/2006 20:43	Venia B McFadden	1
00221	Ammonia Nitrogen	EPA 350.2	1	03/03/2006 16:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	03/06/2006 19:50	Venia B McFadden	1 .
00228	Sulfate	EPA 300.0	1	03/10/2006 21:53	Nicole M Kepley	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	03/03/2006 20:55	Laura A Lockard	1
08238	BTEX (EPA 602)	EPA 602	1	03/07/2006 18:38	K. Robert Caulfeild- James	1
00553	Base Neutrals	EPA 625	1	03/06/2006 17:30	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	03/03/2006 02:45	Zachary S Dennis	.1
08263	Total Phos as P Prep (water)	EPA 365.1	1	03/02/2006 12:40	Nancy J Shoop	1



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Lancaster Laboratories Sample No. WW 4719363

TB Water Sample L.E. Carpenter, NJ

Collected: n.a.

LE-TB

Submitted: 03/01/2006 09:00 Reported: 03/14/2006 at 15:34

Discard: 04/14/2006

SDG#: LEC53-10TB\*

Account Number: 09322

RMT, Inc. PO Box 8923

Madison WI 53708-8923

CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1 .

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

		Laborator	y Chronicle		
CAT	- •		Analysis		Dilution
No.	Analysis Name	Method	Trial# Date and Time	Analyst	Factor
08238	BTEX (EPA 602)	EPA 602	1 03/06/2006 15:56	Steven A Skiles	1



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#### Quality Control Summary

Client Name: RMT, Inc.

Group Number: 979842

Reported: 03/14/06 at 03:34 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

#### Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 06061021201A Total Dissolved Solids	Sample N.D.	number(s):	4719360-47 mg/l	719362 92		80-120		•
Batch number: 06061105101B Nitrite Nitrogen	Sample N.D.	number(s):	4719360-47 mg/l	719362 101		90-110		
Batch number: 06061109101A Total Phosphorus as P (water)	Sample N.D.	number(s):	4719360-47 mg/l	719362 108		89-110		
Batch number: 06061WAD625 bis(2-Ethylhexyl)phthalate	Sample N.D.	number(s):						
Batch number: 060620018A		number(s):	ug/l 4719360-47	89 19362	88	68-111	1	30
Methane Ethane Ethene Propane	N.D. N.D. N.D.	2.0 1.0 1.0 1.0	ug/l ug/l ug/l ug/l	102 102 107 108		80-120 80-120 80-120 73-125		
Batch number: 06062020601A Total Suspended Solids	Sample N.D.	number(s):	-			56-128		
Batch number: 06062022101A Ammonia Nitrogen	Sample N.D.	number(s): 0.20	4719360-47 mg/l -	19362 96		91-100	•	•
Batch number: 06065A15A Total Xylenes Benzene Toluene Ethylbenzene	Sample N.D. N.D. N.D. N.D.	number(s): 0.6 0.2 0.2 0.2	4719363 ug/l ug/l ug/l ug/l	103 107 105 103	101 104 102 101	82-120 86-119 82-119 81-119	2 3 3 2	30 30 30
Batch number: 06066106102B Nitrate Nitrogen		number(s): 0.040	3,		101	89-110	2	30
Batch number: 06066A36A Total Xylenes Benzene Toluene Ethylbenzene	Sample N.D. N.D. N.D. N.D.	number(s): 0.6 0.2 0.2 0.2	4719360-47 ug/l ug/l ug/l ug/l	19362 97 98 97 98	101 102 101 102	82-120 86-119 82-119 81-119	4 3 4	30 30 30 30
Batch number: 06069130101A Sulfate	Sample N.D.	number(s): 0.30	4719360-47 mg/l	19362 100		89-110	-	- *

#### Sample Matrix Quality Control

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

<sup>\*-</sup> Outside of specification



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#### Quality Control Summary

Group Number: 979842

Client Name: RMT, Inc.
Reported: 03/14/06 at 03:34 PM

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD <u>MAX</u>	BKG Conc	DUP Conc	DUP RPD	Dup RP
Batch number: 06061021201A Total Dissolved Solids	Sample 105	number 104	(s): 471936 60-140	0- <b>4</b> 7193 0	62 UNSP 5	K: P718877 634.	BKG: P71887	7 0	5
Batch number: 06061105101B Nitrite Nitrogen	Sample 103	number	(s): <b>4</b> 719366 90-110	0-47193	62 UNSP	K: P719840 N.D.	BKG: P71984	0 0 (1)	20
Batch number: 06061109101A Total Phosphorus as P (water)	Sample 98	number	(s): 4719360 90-110	0-47193	62 UNSP	K: P718877 N.D.	BKG: P71887	7 10* (1)	3 .
Batch number: 060620018A Methane Ethane Ethene Propane	Sample 102 98 105 107	number ( 83 97 105 107	(s): 471936 63-124 63-127 69-126 56-136	0-47193 11 2 0 0	62 UNSP 20 20 20 20 20	K: P718877			
Batch number: 06062020601A Total Suspended Solids	Sample	number (	(s): 471936	0-47193	62 BKG	: 4719360 35.6	36.4	2 (1)	20
Batch number: 06062022101A Ammonia Nitrogen	Sample 49*	number (	(s): 4719360 64-128	0-47193 2	62 UNSP 8	K: P718877 N.D.	BKG: P71887'	7 0 (1)	2
Batch number: 06065A15A Total Xylenes Benzene Toluene Ethylbenzene	Sample 108 108 111 107	number(	(s): 4719363 84-131 78-131 78-129 75-133	3 UNSPK	: P7201	21			
Batch number: 06066106102B Nitrate Nitrogen	Sample 102	number (	(s): 4719360 90-110	0-47193	62 UNSP	K: 4719360 N.D.	BKG: 4719360 N.D.	0 (1)	2
Batch number: 06066A36A Total Xylenes Benzene Toluene Ethylbenzene	Sample 103 106 89 104	number ( 109 110 106 111	(s): 4719360 84-131 78-131 78-129 75-133	0-47193 4 4 4 5	62 UNSP 30 30 30 30	K: P718877			. • ••
Batch number: 06069130101A Sulfate	Sample 104	number (	s): 4719360 90-110	-47193	62 UNSP	K: P718877 36.6	BKG: P718871	7 0	3

#### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Base Neutrals Batch number: 06061WAD625

Daten nuka	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14	
4719360	80	85	83	
4719361	86	87	85	
4719362	83	85	91	

#### \*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Page 3 of 3

#### Quality Control Summary

Client N	Jame: RMT, Inc. l: 03/14/06 at 03:34 PM	Gr 1	oup Number	: 979842	•	
_		Surrogate	Quality	Control		
Blank	88	90	91			
LCS	89	90	93			
LCSD	84	92	94			
Limits:	48-117	62-111	33-155			
Analysis N	Name: Volatile Headspace Hyd	rocarbon				•
Batch numb	er: 060620018A					
	Propene					
4719360	96				<u></u>	
	92					
4719361 4719362						*
	94					
Blank	110					
LCS	111					
MS	97					
MSD	97					
Limits:	48-132	· · · · · · · · · · · · · · · · · · ·				
Amalwaia N	Jame: BTEX (EPA 602)					
	per: 06065A15A	•				
Batth Huma	Trifluorotoluene-P	-			,	
	rririuorocordene-P					
4719363	100		······································			
Blank	101	-				
LCS	99					
LCSD	100					
MS	92					
Limits:	69-129					
	Tame: BTEX (EPA 602)		*			
Batch numb	per: 06066A36A					
	Trifluorotoluene-P					
4719360	100			·····		<del></del>
4719361	99			-		
4719362	99					
Blank	99					•
LCS	98		•			
LCSD	97					
MS	97					
MSD	97					
*****	60.100					
Limits:	69-129					

#### \*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

### Analysis Request, Invironmental Services Chain of Colody



For Lancaster Laboratories use only

Acct. # 01332 Group# 979843 Sample # 4719360-63 COC# 0116971

①—————	Piease	print. Instruc	tions o	n rev	erse si	de com	espond	with ci	rcled	numbe	ers.								
Client: RMT Inc	Acct. #:			\$4.	74.77 - 71.87	4		5	evenija k Konstitan	gewill the								Lab Use C	nly
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Project Manager: N. Cleve#	P.O.#:						Q	1 . 1		Mitrope		<b>BTEX</b>	7			. /			6
Sampler: E- Vincke	Quote #:						y	155		8		37	しげい			/			
Name of state where samples were collected:							9	v	. ,	.હ			<b>,</b> ,						
Name of State Where Samples Were collected:	N2	(	3				1	13		nmonia		Ø	7	DEAP.				•	
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MW-19-4	7	702 0			x	16		X	×	X	分	K	5		一十		·		<del></del>
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Turnaround Time Requested (TAT) (please cli	rcle): Normal	Rush		لنا		ليات					$\dashv$	_							1 7
(Rush TAT is subject to Lancaster Laboratories appro-	val and surcharge.)		Ken	ngui	shed b	//:		•	1/28	Date <b>Pl</b> o		ime 130		eived Fa				Date	Time (
Date results are needed: 2 w/CS		<u>′</u> ~	Palir		shed b	ar.	1	<u> </u>	407	Date									<u> </u>
Rush results requested by (plants birste): Pho Phone #: (ala- 9 75-1676) Fax #: (a	one Fax E	-mail -C.77		Idak	arieu D	у.				Date	'   '	me	460	eived	by:		•	Date	Time
E-mall address: jennifer over yourde 6	Dentine c	270 200	Relin	nauk	shed b					Date	+	ime	Rec	eived	bv:			Date	Time
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QC Summary Type VI (Raw Data)	Yes	No	Relin	quie	shed b	ý:		<u></u>	$\overline{}$	Date	Т	ime	Rec	eived	by:			Date	Time
Type I (Tier II) GLP Site-specific QC re Type II (Tier II) Other (If yes, indicate QC sar		No	1						7						•				<b>\</b>
Type II (Tier II) Other (If yes, Indicate QC san Internal Chain of (			Relin	quis	hed b	y:				Date	7	me	Rec	eived	by:			Date	Time
Type IV (CLP)	againay tequiligo	: 169 IAO	1									1	$V_{\lambda}$		n.	Bin	1.0.	13-17	0 90x

# Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D. TNTC IU umhos/cm C Cal meq g ug	none detected Too Numerous To Count International Units micromhos/cm degrees Celsius (diet) calories milliequivalents gram(s) microgram(s)	BMQL MPN CP Units NTU F Ib. kg mg	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units degrees Fahrenheit pound(s) kilogram(s) milligram(s) liter(s)
ml m3	milliliter(s) cubic meter(s)	ul fib >5 um/ml	microliter(s) fibers greater than 5 microns in length per ml

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
  - ppb parts per billion
- Dry weight
  basis
  Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

Inorganic Qualifiers

U.S. EPA data qualifiers:

#### **Organic Qualifiers**

Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quatitated on a diluted sample	N	Spike amount not within control limits
E	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
	the instrument		for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
Р	Concentration difference between primary and	*	Duplicate analysis not within control limits
	confirmation columns >25%	+	Correlation coefficient for MSA < 0.995
U	Compound was not detected		$\mathbf{v}_{i}$
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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2426 New Holland Pite PO Box 12425 I property: Pt 17605-2425 • 717-656-2300 Per 717-656-2681 • www.langasterlahs.com

#### ANALYTICAL RESULTS

Prepared for:

RMT, Inc. PO Box 8923 Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

#### **SAMPLE GROUP**

The sample group for this submittal is 979844. Samples arrived at the laboratory on Wednesday, March 01, 2006. The PO# for this group is 6527.18.

Client Description	Lancaster Labs Number
MW-19 Filtered Grab Water Sample	4719371
MW-19-4 Filtered Grab Water Sample	4719372
RB-01 Fiiltered Grab Water Sample	4719373

#### **METHODOLOGY**

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO RMT, Inc. 1 COPY TO Data Package Group Attn: Nicholas J. Clevett



2425 New Holland Pite, PO 8ox 12425 Lancaster PA 17605-2425 • 717-658-2300 Fax: 717-658-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

Max E. Snavely Senior Specialist



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Page 1 of 1

4719371 Lancaster Laboratories Sample No.

MW-19 Filtered Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 15:26

Account Number: 09322

Submitted: 03/01/2006 09:00 Reported: 03/08/2006 at 11:29

Discard: 04/08/2006

RMT, Inc. PO Box 8923

Madison WI 53708-8923

19-MW SDG#: LEC55-06

As Received

As Received Method

Dilution

CAT No.

Analysis Name

CAS Number

Detection Limit

Factor

Lead

07055

7439-92-1 N.D. 0.0084

mg/l

State of New Jersey Lab Certification No. PA011 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

Dilution Analysis CAT Analyst Factor No. Analysis Name Method Trial# Date and Time SW-846 6010B 03/07/2006 12:10 Joanne M Gates 07055 Lead 03/07/2006 01:35 Helen L Schaeffer 01848 WW SW846 ICP Digest (tot SW-846 3005A rec)



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Page 1 of 1

Lancaster Laboratories Sample No. 4719372

MW-19-4 Filtered Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 17:02

by EV

Account Number: 09322

Submitted: 03/01/2006 09:00

Reported: 03/08/2006 at 11:29

RMT, Inc. PO Box 8923

Discard: 04/08/2006

Madison WI 53708-8923

194MW

SDG#: LEC55-07

As Received

Dilution

CAT No.

Analysis Name

CAS Number

Result

Method Detection Limit

Units

07055 Lead 7439-92-1

N.D.

Factor

0.0084

mg/l

State of New Jersey Lab Certification No. PA011 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT Analysis Dilution No. Analysis Name Method Trial# Date and Time Analyst Factor 07055 Lead SW-846 6010B 03/07/2006 12:14 Joanne M Gates 01848 WW SW846 ICP Digest (tot SW-846 3005A 03/07/2006 01:35 Helen L Schaeffer rec)



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Page 1 of 1

4719373 Lancaster Laboratories Sample No.

RB-01 Fiiltered Grab Water Sample L.E. Carpenter, NJ

Collected: 02/28/2006 18:10

by EV

Account Number: 09322

Submitted: 03/01/2006 09:00 Reported: 03/08/2006 at 11:29

Discard: 04/08/2006

RMT, Inc. PO Box 8923

Madison WI 53708-8923

RB--1 SDG#: LEC55-08RB\*

As Received

CAT No.

Analysis Name

CAS Number

As Received Result

Method Detection Limit

Dilution

N.D.

Units

Factor

07055 Lead

7439-92-1

0.0084

mg/l

State of New Jersey Lab Certification No. PA011 This sample was filtered in the lab for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT Analysis Dilution No. Analysis Name Method Date and Time Analyst Factor 07055 Lead SW-846 6010B 03/07/2006 12:25 Joanne M Gates 7 01848 WW SW846 ICP Digest (tot SW-846 3005A 03/07/2006 01:35 Helen L Schaeffer rec)



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2881 • www.lancasterlabs.com

Page 1 of 1

#### Quality Control Summary

Client Name: RMT, Inc.

Group Number: 979844

Reported: 03/08/06 at 11:29 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

#### Laboratory Compliance Quality Control

Blank Blank Report LCS LCSD LCS/LCSD Analysis Name Result MDL Units %REC \*REC <u>Limits</u> RPD RPD Max

Batch number: 060661848003 Lead

Sample number(s): 4719371-4719373

N.D. 0.0084 mg/l 80~120

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

MSD MS/MSD BKG DUP DUP Dup RPD Analysis Name REC Limits RPD MAX Conc RPD Conc Max Batch number: 060661848003 Sample number(s): 4719371-4719373 UNSPK: P720630 BKG: P720630 Lead 101 101 75-125 20 N.D. N.D. 52\* (1) 2.0

\*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.

### Analysis Request, \_nvironmental Services Chain of Cu. Jdy

Date

Time

Received by:

Lancaster Laboratories	Acct.#09	3 <i>3</i> 72	For L	ancaster Li	Sar	ries use mple #_	only 411	92	571-	73	<u>.</u>	C	OC	<b>;</b> # (	0116	971	
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Client: RMT Inc					4	the section	5								For L	ab Use O	nly
Project Name/#: 6527, 18		#.					SQI		Ŋ		٦		Video Contract		FSC:		
Project Manager: N. Clevett	<del></del>	6527,				Q	.1 (		M. tropes	18	7.7			F			6
Sampler: E. Vincke		#:				v			-1	875X	117		•				
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Type I (Tier I) GLP Site-specific QC	required? Ye	s No	7		•			7	Date	ıme	Rec	eivea	uy:			PIGIG	HIIIB
Type II (Tier II) Other (If yes, Indicate QC	sample and submit	triplicate volume.	) Dell		h	<del></del>		-+		$\overline{}$						15.4	Trin a

Relinquished by:

Internal Chain of Custody required? Yes No

Type III (NJ Red. Del.)

Type IV (CLP)

## Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	Ĭ	liter(s)
ml	milliliter(s)	ül	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per mi

- less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion

the instrument

Defined in case narrative

Dry weight
Basis
Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

В

C

D

E

X,Y,Z

#### **Organic Qualifiers**

Analyte was also detected in the blank

Compound quatitated on a diluted sample

Concentration exceeds the calibration range of

Pesticide result confirmed by GC/MS

TIC is a possible aldol-condensation product

# B Value is <CRDL, but ≥IDL E Estimated due to interference Duplicate injection precision not met N Spike amount not within control limits S Method of standard additions (MSA) used

Inorganic Qualifiers

for calculation
U Compound was not detected

W Post digestion spike out of control limits

Duplicate analysis not within control limits

Correlation coefficient for MSA < 0.995

J Estimated value
 N Presumptive evidence of a compound (TICs only)
 P Concentration difference between primary and confirmation columns >25%
 U Compound was not detected

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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